

BASELINE

BASELINE MAGAZINE

THE HEALTH

ECONOMY

GLOBALIZATION

Dr. DAYANANDA

PIBAREL

MEETEI



4th
edition

October 1

2021

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**BASELINE
TEAM**

Est. 2021

President's Message

Education is beyond the walled classroom ecosystem and the bookish knowledge. Education is for the purpose of accelerating growth, sustainability, stability, peace and harmony all around irrespective of boundaries. Therefore, to contribute in the sharpening process of the greatest tool of the mankind, the **Baseline Team**, a non-profit organization run by 20 volunteers from diverse field of studies rise up in this pandemic to help young students in their curriculum, providing career guidance, creating competitive awareness, counseling and so on. These would aid young students in gearing up for their higher studies and career ahead. Our door is always opened and we are ready to help you in the best possible ways.

So, what are you waiting for ? Get registered and let us contribute a part in your journey towards excellence.

With best wishes,

Ashapriya Lourembam,
President,
Baseline Team

Vice President's Message

In a society heart-stricken with many problems starting from minute to big issues of unemployment, declining economy , slow rate of development, corruption and sometimes conflicts, a proper education of the youths seems to be one of the most effective means to reorganize the chaos that exist in the society. Although it is a long term solution, it will be a powerful option.

The pandemic almost creates a halt in the educational activities across the state and nation as a whole. And this creates a great shift in the normal life of students .Unaware or not in our society at this juncture of the pandemic, most of the students are likely to get entangled in a loop of distractions which includes all sorts of time consuming platforms including social media and video games. Most of their activities in majority are found to be unproductive and misdirected. So we come up as team to provide whatever little help we can for the students. And again when comes to our current education ,most of what being taught in schools are based on things of theoretical abstractions, which itself is very difficult to find practical implications in solving the issues in the society .So, it is very hard for students to find a good overview of the situations facing in our society at present. Moreover, apart from academic point of view and marks, reading for knowledge almost seems to be a lost art in our students. Hence, to get them involved in digging the truth of the society, we as a team from varied professions are making up various monthly programs including career counseling, quiz and essay program on topics relevant to our day- to-day life to get an insight of what exactly is the society facing right now.

This will be our first monthly magazine compilation. It will be very exciting to get a taste. Thanks to our magazine editor. Finally for our the **Baseline Team**, I am glad to be a part of the family. I wish the team spirit holds us altogether.

"Let's work as a team and shine as a team"

With best wishes,

Dr. Hanjabam Laxmikanta Sharma

Vice-President, Baseline Team

Editor's Message

It's again my privilege working on the 4th Edition of **Baseline Magazine**. Again, this isn't a commercial publication or fundraiser. The sole purpose behind this series of publication is to support our mission of helping students and helping society in the possible ways that are upto our reach. Its just the initial phase. The circulation of the first edition of BASELINE MAZAGINE has lived upto the estimation through the official website www.baselinegrp.com.

I would like to pay my gratitude to all the readers for turning their eyes on the magazine last month. I would expect the same from the readers this time as well. The contents and outlook of the magazine are fueled by the love and support of the readers who encourage the team for the little effort we made for the better society.

The habit of reading is important to trigger in the young minds because reading is the main source of knowledge and writing is a way of recording the knowledge. These both swing in parallel. Inducing reading habit is also one of the purposes and sharing our knowledge via writing is our responsibility. Nurturing reading habits is our responsibility and nurturing our writing habit is your responsibility.

With regards,

Bon Ami Laishram,
Editor,
Baseline Magazine

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Reforming a Business Model

Dr. Dayananda Pibarel Meetei is the founder of Medilane Group which includes healthcare, consultancy service and also CSR unit of the company. The main business model of the company is providing emergency ambulance services at just a dial to the needy ones of the hour. This is one of the most unique business models ever formulated in the global market. And the land of Manipur which is often considered as the untouched corner of the country and the world is the place where these talents are shaped. Medilane Healthcare was founded in the year 2016 with some limited resources and unnoticed ideas. They slowly leave their footprints in the healthcare sector of the state with their unique service which has come in as the solution of the problem that has been existing in the healthcare sector ; yet none stopped by to look for the solution in alternative way until Medilane Group came in the scene.

Medilane Group as the company has seen tremendous growth and mass acceptance in the last 5-6 years of operation in the sector. The company is also one of the pioneers of the ongoing startup revolution in the state where only Government jobs are considered as employment. The successful startup like Medilane Group has become a role model of the educated youth to become the next employment generators and contribute in the further growth of the state economy through production and services.

As usual , we sat down with Dr. D Pibarel Meetei himself and has a short Q&A session with him admits his busy schedule.

What is your inspiration to start the Medilane Services?

Meetei: My inspiration has many cases. In my Graduation days I faced a lot of difficulties and sad moments related to lack of many health facilities.

In short I had some problems for Ambulance to check in to hospital from my village about some medical cases of My Father. I thought of some easy and affordable

transport would be very needed in our Society. Since then it was my inspiration to start the Medilane.

What are the difficulties you faced during your initial stages of Medilane Service?

Meetei: I faced a lot of difficulties during the initial stage. The Main problem was the financial section. The business initially needed a lot of Money and

just want to say that is the biggest problem. Also another difficulty was lack of Quality Employees. All the Employees were very new to the system and the quality was very less.

Gradually we tried to give a lot of lessons and trainings and then started improving the quality in business

What is your main focus in the future with Medilane?

Meetei: My Main Focus is become a Giant Health and Welfare Company in Manipur and help the peoples and to help Manipur somehow in terms of Economical development by bringing up the Company worldwide

How do you see the Future Youths of Manipur and How do you want to do something for them in future?

Meetei: The youths of Manipur has a lot of Talent and they are very unique. I just want to say that Youths should not stick in getting a government job or Doctor/Engineer/IAS.

Instead you can start your own business and help the economy of our Land. For Example If the knowledge of and IAS officer is used in Business then the Business will be very great using his/her knowledge.

Lastly i want to say to youths that you are all unique and we need you to bring up Manipur in Globalisation.

I'll never go to Delhi

Sonia Yumnam

Nature has brought all the changes, summer, winter , day and night. As the winter approaches, the night becomes longer and I am lying on my bed turning left to right to get little more sleep. I start thinking about myself starting from my first day at school to Grade 10. I was studying at a private school in my village. I further moved to Imphal after matriculation exam to complete the higher secondary studies. I was enrolled at COMET School for the higher secondary studies. My life was inspiring and smooth with the new vibes around the new environment. I passed the higher secondary exam with thumping grade I my marksheet. There was a sense of realisation and confidence with all the performances. I started thinking bigger and bigger. I was enrolled at DM College and I again did it with flying colours. I began eyeing on one of most prestigious universities of the country which is at the national capital for my further higher studies and grasp my dream. I had a lot of dispute with my father on this.

" I couldn't afford your dream , I have been working hard to fulfill your dream and your other 3 siblings with my little earning my dear. "

My father also added that if I went to Delhi for further studies, then they would be no possible way to offer the same to the other 3 children.

" I had sacrificed everything for you all and I am done. You are mature and you are a graduate now. Therefore, you have to extend your helping hand to run the family along with me. "

At the moment, my mother wakes me up , " Ebungoachoabi are you still dreaming ? Wake up. Your father is unwell , enquire his health condition ? "

I'm terrified, jumped off from my bed and rush to my father's room. " Father ! are you unwell. Let's go to hospital. "

He replied, " It's just a mild fever. I am quite stable now but you need to go to school as my substitute for a day. "

I asked , " How could I ? "

He replied , " Why not ? Just tell the principal that I am unwell and I have sent you as my substitute for the day. He will accept it. "

I just wrapped up my morning household works and went off to school riding my father's old bicycle. Students gave me a warm welcome with morning wishes when I entered the classroom.

It's winter days and all students in the school donned sweaters and some of them also Ngabongkhoa (Cloth to cover up body) . With stringy strikes of the winter wind, their faces were all cracked and red rounded.

I introduced myself to the class before taking over.

" I am the son of your teacher Choaba. I will conduct your class today on his behalf. Has he assigned any homework ? If it's so, show it to me one by one. "

The students showed their homework notebook and one of them failed to show.

I asked , " What happened ? Haven't you done your homework ? "

He replied, " Sir, my homework notebook has been used as cigarette roller paper by my father. "

I was stunned upon hearing so. How could a father be that irresponsible ?

Other students laughed out upon hearing so.

I readily said , " I will excuse you for today but not again. "

Then, a question arouse in my mind , " Were all students in government schools practice the same pattern ? " I also realised why my father sent all four of us at private schools. I could see some students coming to school barefoot with even slippers or shoes amidst that cold freezing winter days. I felt pathetic whenever I imagined myself in their place. I taught some mathematics problems to the students and I returned home as soon as the final bell rang. I reached home , my father was working on Phah (traditional local mat) and he was preety well. I smiled with happiness. He also felt a sense of relief on seeing me happily returning from work although I didn't explain about my experience being in his shoes. I rushed to my room to get some rest.

The next day I were again asked to go to work in his place so that he could complete withing the mat. The classes were normal. Every student shown their homeworks except the same boy whose notebook was turned into cigarette rolling paper by his father himself. I felt humiliated and hence a sense of teacher pride arose in me. I decided to punish the boy with stick on his hand. The raised the stick the hit him on his hand but stuck on his Ngabongkhoa accidentally and it fell down. The most pathetic part was that the boy wore nothing underneath other than his Ngabongkhoa. All the students laughed at him. I felt bad for the boy. The boy was also emotional. I raised his clothes to the position and covered him up.

" What's your name and why don't you wear anything underneath in this cold winter ? I asked.

The boy replied, " My name is Sanathoi. I live with my father as my mother left me when I were nine. I father promises me to get new homework notebook as soon as he gets his wages. Yesterday, I were washing my clothes and the clothes didn't dry up today, hence I came like this. "

I were dumbfounded and I continued the class with recitation of multiplication table to divert the issue and bring back the students. Sanathoi was reciting along with me with any error and that's unexpected. The school was over for the day. I was riding back to home. I was struck on whatever I heard from the boy in the classroom while riding. As I thought deeper , I was worried about Sanathoi thinking that how could a boy like him afford further studies. His father also dreamed about sending his boy to good school like my father. The difference was my father was a government employee and his father was a labour. Then, I realised that if Sanathoi could educate himself in this pathetic condition , then why can't I do so to achieve what I want in life. The reality that young students like Sanathoi face these difficulties at the very early age has impacted my thought process and also my career path. I realised if I go to Delhi , then my other three siblings would have to face the same condition and deficiency in facilities, clothing, books. Therefore, I decided to stay back in my homeland and continued my higher studies here itself.

ANTIVIRUS

Laishram Lemba Meetei

Antivirus is a kind of software used to prevent, scan, detect and delete viruses from computer. Once installed, most antivirus software runs automatically in the background to provide real time protection against virus attacks.

Comprehensive virus protection programs help protect your files and hardware from malware such as worms, Trojan horses and spyware and may also offer additional protection such as customizable firewalls and website blocking.

Antivirus programs and computer protection software

Antivirus programs and computer protection software are designed to evaluate data such as web pages, files, software and applications to help find and eradicate malware as quickly as possible.

Most provide real-time protection, which can protect your devices from incoming threats; scan your entire computer regularly for known threats and provide automatic updates; and identify, block and delete malicious codes and software.

Because so many activities are now conducted online and new threats emerge continuously, it's more important than ever to install a protective antivirus program. Fortunately, there are a number of excellent products on the market today to choose from.

How does antivirus work?

Antivirus software begins operating by checking your computer programs and files against a database of known types of malware. Since new viruses are constantly created and distributed by hackers, it will also scan computers for the possibility of new or unknown type of malware threats.

Typically, most programs will use three different detection devices: specific detection, which identifies known malware; generic detection, which looks for known parts or types of malware or patterns that are related by a common codebase; and heuristic detection, which scans for unknown viruses by identifying known suspicious file structures. When the program finds a file that contains a virus, it will usually quarantine it and/or mark it for deletion, making it inaccessible and removing the risk to your device.

The Importance of Antivirus and Virus Protection

Antivirus software is software that is installed on a computer system to protect it from viruses, spyware, malware, Trojans, phishing attacks, rootkits and spam attacks, as well as any other cyber threats.

Businesses likely use computers on a daily basis, which is why it's paramount that they have sufficient virus protection. Computer viruses are more sophisticated and harmful than ever; a virus could damage a computer to the point where it can no longer be used. In order to protect your business and its computer systems, you need antivirus software.

Here's a look at viruses and antivirus protection in more details:

What is a Virus?

A computer virus follows a similar process to that of the flu virus, in that it is designed to spread from host to host and can replicate itself. But from a more technical standpoint, computer viruses are a type of malicious code or programme that alter the way a computer operates and is designed to spread between computers by inserting its own code into computer programmes.

A virus has different kinds of functions, from making a computer run slowly to damaging parts of the system, stealing personal details or sending out unauthorised messages. Computer viruses are said to cause billions worth of economic damage each year due to causing system failures, corrupting data, stealing data and increasing maintenance costs.

Where Do Viruses Come From?

Viruses are written by highly skilled programmers to damage people's computers, steal information or even cash. They work to exploit security vulnerabilities to infect computer systems and spread their virus.

The reason for the viruses can vary. For some, it may not be for malicious purposes and they simply want the "bragging rights" that come with creating and spreading a virus, and it may do no more damage than creating annoying pop-ups. However, some do it to gain access to data, such as credit card information, passwords or personal identity information. Viruses can even be used to gain remote control of a computer, or even damage computer systems, which may be utilised by competing business entities to destroy the competition.

What are the Different Kinds of Viruses?

Like viruses in the human body, computer viruses come in many different types. Types of viruses include:

- **Boot sector virus** – somewhat obsolete now that we no longer use floppy disks, but they can crop up on USB drives and in email attachments. They infect the master boot record and are difficult to remove.
- **Direct action virus** – this virus doesn't install itself or hide in the computer's memory; it attaches itself to a particular type of file, and when someone executes the file, it springs to life and looks for similar files for it to spread to. It prevents some files from being accessible.
- **Resident virus** – this virus installs itself on a computer, allowing them to work when the original source of the virus has been removed, making them quite dangerous. There are two types, fast infectors and slow infectors. Fast infectors cause as much damage as quickly as possible; slow infectors can be harder to recognise as their symptoms develop more slowly.
- **Macro virus** – this virus uses common applications such as Microsoft Outlook and Word to allow macro programmes to be embedded in documents and emails, so the programme can run automatically when the document is opened. It is one of the reasons you should never open an unexpected or suspicious attachment in an email.

How Does Antivirus Work?

Antivirus software is designed to detect, prevent and take action against malicious software in your computer, including viruses. Even if you're smart with how you use your computer

to avoid coming into contact with a virus, antivirus software is an essential part of a good security strategy.

Antivirus software runs in the background and checks every file you open and compares it to known viruses and other types of malware; this is to help you prevent your machine from becoming infected. The software also runs system scans to ensure that no viruses are lying dormant on your computer. If your antivirus software comes across a signature for a virus or other malware, it will stop that file from running and put it into quarantine, where it will either delete it automatically or you can choose to run it if you're confident it is a false detection.

Why is Antivirus Important?

Antivirus protection is essential for any business wanting to protect their data and computer systems from becoming corrupted. Antivirus software is the security person at the gate preventing unwanted persons from entering. Prevention is much more effective than cure, so it's better to have a system in place designed to detect and prevent virus attacks than having to spend time and money repairing infected machines.

Additionally, from a business perspective, your reputation could be on the line if a virus exposes personal client data or sends unsolicited emails to your contacts in an attempt to spread the virus further.

Basic Life Support (BLS)

Sonia H.

Everyone can be life-saving rescuer for a cardiac arrest victim. This would cover up the CPR skills depending upon our level of training , expertise and confidence. This would be very important thing to know.

Cardio Pulmonary Resuscitation (CPR) : It's life-saving procedure for a victim who has sign of cardiac arrest that includes no response , no normal breathing, no pulse.

Components of CPR are chest compression , breathing airway.

Need for CPR : Early recognition and CPR are crucial for survival from cardiac arrest. With this information in hand , we will have the chance to save more lives. Cardiac arrest can take place anywhere and anytime.

Techniques of Basic Life Saving :-

1. Verify Scene Safety : If cardiac arrest happened in the turmoil places like street, busy public places, our first step should be identifying the person in trouble and displacing the victim in a safe side nearby.

2. Unresponsive Victims : Shout out for nearby help , activate emergency response system via mobile device.

3. Look for no breathing or only gasping and check pulse rate simultaneously.

4. Begin cycle of 30 compressions and 2 breaths until the emergency team arrive.

Importance of Chest Compressions :-

1. Each time we stop chest compression, blood flow to the heart and brain decrease drastically. Once we resume compressions, it takes several compression to increase blood flow to the heart and brain back to the levels present before the interruption. Thus, the more often chest compression are interrupted and the longer the interruptions are, the lower the blood supply to the heart and brain is.

High Quality Chest Compressions :-

If the victim isn't breathing normally or is only gasping and has no pulse , then start CPR with chest compression.

Single rescuer should use the compression to vertical ratio of 30 compressions to a breaths when giving CPR to victims of any age.

When we give chest compression , it's important to :-

- Compress at a rate of 100 to 120 per minute.
- Compress the chest atleast 5 cm
- Allow the chest to recoil completely after each compression
- Minimize interruption in compression

Chest Compression Technique:-

The foundation of CPR is chest compression. The following steps should be followed:-

- Position yourself at the victim's side.
- Make sure the victim is lying face up on firm , flat surface. If the victim is lying face down carefully roll him face up.
- Position your hands and body to perform chest compression.
- Put the heel of one hand in the centre of the victim's chest and on the lower half of the breast bone.
- Put the heel of your other hand on top of the first hand.
- Straighten your arms and position your shoulders directly over your hands.
- Give chest compression at a rate of 100 to 120 per minute.

- Press down at atleast 5 cm with each compression make sure you push straight down on the victim's breast bone.
- At the end of each compression, make sure you allow the chest to recoil completely. Chest recoil allow blood to flow into the heart.

Blockchain Technology and Crypto currencies

Zeshmin Ch.

Blockchain can be considered as a block of digital information stored in a chain of Public database. A Block basically contains the information about all the transactions, their date, the amount of transaction and the time the transaction is made. It also contains information about which parties are taking part in this transaction and also the unique information of that specific buyer and seller. Cryptocurrency is a form of digital currency and an application of Blockchain. It basically provides its users with encrypted digital currency, which is independent of any centralized banking system, but rather it is in the form of units or blocks. Digital currency means that the amount of units or coins only exists on computers. One of the major tasks performed by Blockchain is to store the transaction

data of Cryptocurrencies. The network required for Blockchain is a peer-to-peer network in which every user of the network has the information of all the transactions made in that specific network. Transactions are made using Cryptocurrency wallets. All the transactions that are made are encrypted. Some of the common examples of Cryptocurrency are Bitcoin (BTC), Litecoin (LTC), Ethereum (ETH), Ripple (XRP) etc.

Blockchain:-

Blockchain can be defined as a digital record of all the transactions that take place in a computer network. The name comes from two words, one is block which means that there are blocks of individual data which has all the information about the transaction and the second is a chain which means that all this data is arranged in a single list which is here referred as a chain.

Blockchain Architecture : Blockchain is a sequence of blocks, which holds a complete list of transaction records like conventional public ledger. With a previous block hash contained in the block header, a block has only one parent block. It is worth noting that uncle blocks (children of the block's ancestors) hashes would also be stored in Ethereum Blockchain. The first block of a Blockchain is called genesis block which has no parent block.

A Block : It has information related to the transaction, such as when the transaction between two parties was made, what was the date and time and what amount was transferred between the two dealing parties. A block consists of the block header and the block body .

Block Header : The block header consists of

- **Block Version:** Indicates which set of block validation rules to follow.
- **Merkle tree root hash:** Every transaction has its own unique code that differentiates it from other transactions. It basically separates all the transactions from others so that at the time of inquiry it would be easy to identify that specific transaction. The unique code is known as 'Hash'.
- **Timestamp:** Current time as seconds in universal time since January 1, 1970.
- **nBits:** Target threshold of a valid block hash.
- **Nonce:** An 4-byte field, which usually starts with 0 and increases for every hash calculation.
- **Parent Block Hash:** A 256-bit hash value that points to the previous block

Block Body: The block body is composed of a transaction counter and transactions. The maximum number of transactions that a block can contain depends on the block size and

the size of each transaction. Blockchain uses an asymmetric cryptography mechanism to validate the authentication of transactions . Digital signature based on asymmetric cryptography is used in an untrustworthy environment.

Digital Signature: It contains a unique digital signature that is allotted to every individual that is a part of this whole network. At the time of transaction this digital signature is used to identify which users have participated in this transaction. The capacity of each block is almost 1 Mb which means that each block can store in its thousands of transactions.

Key Characteristics of Blockchain

- **Decentralization:** In conventional centralized transaction systems, each transaction needs to be validated through the central trusted agency (e.g., the central bank), inevitably resulting in the cost and the performance bottlenecks at the central servers. Contrast to the centralized mode, third party is no longer needed in Blockchain . Consensus algorithms in Blockchain are used to maintain data consistency in distributed networks.
- **Persistence:** Transactions can be validated quickly and invalid transactions would not be admitted by honest miners. It is nearly impossible to delete or rollback transactions once they are included in the Blockchain . Blocks that contain invalid transactions could be discovered immediately.
- **Anonymity:** Each user can interact with the Blockchain with a generated address, which does not reveal the real identity of the user. Note that Blockchain cannot guarantee the perfect privacy preservation due to the intrinsic constraint
- **Auditability :** Blockchain stores data about user balances. Any transaction has to refer to some previous unspent transactions. Once the current transaction is recorded in the Blockchain , the state of those referred unspent transactions switch from unspent to spent. So transactions could be easily verified and tracked.

Taxonomy of Blockchain systems

Current Blockchain systems are categorized roughly into three types: public Blockchain , private Blockchain and consortium Blockchain.

- **Public Blockchain :** All records are visible to the public and everyone could take part in the consensus process. Differently, only a group of pre-selected nodes would participate in the consensus process of a consortium Blockchain . As for private Blockchain ,only those nodes that come from one specific organization would be allowed to join the consensus process.

- **Private Blockchain** : Regarded as a centralized network since it is fully controlled by one organization.
- **Consortium Blockchain** : Constructed by several organizations is partially decentralized since only a small portion of nodes would be selected to determine the consensus.

Working of Blockchain :-

In order to add a block into the Blockchain the block should fulfill the following criteria :

1.A transaction has to be made. An agreement between the users must take place in order to initiate the addition of a new block into the Blockchain .

2.The transaction that is made must be verified. In the case of Blockchain this verification is done by a computer network that is comprised of more than 5 million computers spread across the globe. This networks make sure that the details of this transaction are right and they cross check thing like the time of the transaction, the amount of the transaction, the users involved, digital signatures etc,.

3.The transaction is to be stored in the block. That means that once the transaction is verified and is accurate the information such as the users digital signatures, transaction time and the transaction amount is stored in the block having its unique hash. This block is then stored in the Blockchain along with thousands of other blocks.

4.The last step includes the assignment of Hash. The Hash given to this transaction is of the most recent block that is added in the Blockchain . As soon as the block is hashed, it can be added into the Blockchain .

Once the block is a part of the Blockchain it can be publicly seen by everyone that is the part of that network. Every user has a copy of the Blockchain and they have access to the information related to the transactions along with the information about the time, date and amount added this block to the Blockchain.

CRYPTOCURRENCY

Cryptocurrency is the best example of digital currency and it is transferred between the users of Blockchain without a middleman which in normal cases are banks. Cryptocurrency is just another type of data that can be stored on a Blockchain transactions. These transactions are recorded on Blockchain which is a decentralized system and is hosted on computers across the world. Cryptocurrency is traded on Cryptocurrency exchanges just like money is traded in stock exchanges. A Cryptocurrency wallet is a digital wallet which is used to receive, store and send Cryptocurrency. Its security is ensured with the help of encryption algorithms that, make sure that the Cryptocurrency is safe from any external threats. Transactions are made with the help of this Cryptocurrency wallet. There are two types of keys namely Public Key and Private Key . In order to transfer Cryptocurrency from an account to a specific account, we must know the Private Key of the account in which we have to transfer the amount. Cryptocurrency network gets encrypted transactions and it broadcasts these requests which are queued and are then later added in the Blockchain which in this case is a Public ledger. These transactions will then be saved on the Public ledger with the help of a technique called mining. When transactions are made and are added onto the Public ledger then which is the Blockchain then new coins or Cryptocurrency is created. This is known as mining. It is explained in the later part of the paper under the heading . Mining. All users have access to the Blockchain and every user has a copy of the Blockchain in their computer. The Blockchain available to the users tells the users about the time of transaction, the date of transaction and the amount of transaction but it never tells us about the identity of the user. This is a major trait of Cryptocurrency that it does not reveal the identity of the user. Just as in banks there are bank accounts similarly in the case of Cryptocurrency there are keys. Whoever owns the keys owns the amount of Cryptocurrency present in the accounts of the keys. All these transactions are added onto the Blockchain and they form up queues and then are added block by block forming a chain of blocks.

BLOCKCHAIN AND CRYPTOCURRENCY APPLICATIONS.

There are numerous applications of Blockchain and Cryptocurrency. Some of these applications are stated as:

1. Travel industry is probably the industry that is most effected with the introduction of Bitcoin. As bitcoins are considered to be a universal currency so where ever you go you can use them without paying any extra banking or conversion fees. Cheapair.com is a website that has been accepting bitcoins for the booking ofhotels, flights, rental cars and cruises.
2. Schools, colleges and universities now a days are also accepting payments in the form of Bitcoins. University of Nicosia is accepting payment of fees through Bitpay that is a

platform that allows to pay academic feesthrough bitcoins. Some universities in Germany, Switzerland and United States are also accepting bitcoins as academic fees.

3. Blockchain and Cryptocurrency also helps environmentalists. Surprisingly enough it can help the world be more green. It would eliminate the cost of making notes which is done at the expense of trees. As this is a digital form of currency so the need of hardcore currency would be eliminated hence saving the cost of the paper and production costs. Also there are some organizations such as Brooklyn Microgrid who allows the users that have solar panels to sell their environmental credits to people having no direct access reducing carbon emissions and promoting green energy.

4. Another use of Blockchain and Cryptocurrency is in the field of charities and donations. It is often seen that the donations and charities never make it to the people that they are actually meant for resulting in corruption and mismanagement. By using Blockchain and Cryptocurrency it can be made sure that the amount meant for someone reaches that specific individual or organization. The World Food Program (WFP) is using Cryptocurrency for transferring its funds as it is safe and easily manageable with almost no chance of article corruption

5. Blockchain and Cryptocurrency can also be used in the field of advertisement and digital publishing. A common complication that every user using internet faces is irrelevant ads popping up on article. To eliminate this problem some organizations and companies such as Solidarticle will have its own set of ads related to the article and these sets are selected by the user itself so that it can make sure that the target beneficiaries get the benefits of the article. This technology utilizes proprietary form of Cryptocurrency, Engagement Token, to fuel engagement; both publishers and audience members can earn tokens by commenting and publishing original content, and advertisers buy tokens to select their ad placements among relevant articles Opinion have introduced the option of pay-per-article advertising meaning that each article will have its own set of ads related to the article and these sets are selected by the user itself so that it can make sure that the target beneficiaries get the benefits of the article. This technology utilizes a proprietary form of Cryptocurrency, Engagement Token, to fuel engagement; both publishers and audience members can earn tokens by commenting and publishing original content, and advertisers buy tokens to select their ad placements among relevant articles.

As fundamental technologies with transformative potentials, Blockchain and Cryptocurrencies have found a wide spectrum of application scenarios in various types of industries, ranging from the underlying techniques of data storage, encryption, and verification, to the middle level of finance and asset management, and to a variety of high-level business models. The properties of its security, privacy, traceability, inherent data provenance and time-stamping has seen its adoption beyond its initial application areas. Its decentralized application across the already established global Internet is also very

appealing in terms of ensuring data redundancy and hence survivability. Thus the invention of the Blockchain and Cryptocurrencies can be seen to be a vital and much needed additional component of the Internet that was lacking in security and trust before. Blockchain and Cryptocurrencies technology still has not reached its maturity with a prediction of five years. As fundamental technologies with transformative potentials, Blockchain and Cryptocurrencies have found a wide spectrum of application scenarios in various types of industries, ranging from the underlying techniques of data storage, encryption, and verification, to the middle level of finance and asset management, and to a variety of high-level business models. The properties of its security, privacy, traceability, inherent data provenance and time-stamping has seen its adoption beyond its initial application areas. Its decentralized application across the already established global Internet is also very appealing in terms of ensuring data redundancy and hence survivability. Thus the invention of the Blockchain and Cryptocurrencies can be seen to be a vital and much needed additional component of the Internet that was lacking in security and trust before. Blockchain and Cryptocurrencies technology still has not reached its maturity with a prediction of five years as novel applications continue to be implemented globally.

The Greatest Enemy of Knowledge is not Ignorance, It is Illusion of Knowledge

Bon Ami Laishram

“The greatest enemy of knowledge is not ignorance, it is illusion of knowledge”, is a proverb by the world’s most decorated theoretical physicist Stephen William Hawking. The proverb means that a person who does not know anything is better than a person who assumes or thinks he knows everything. The advantage of having a relevant and a valid

knowledge is that a valid knowledge can be used for transforming the world successfully and takes the world a step closer to the moon and a vague knowledge can fail the entire planned operation and takes a step closer to the hell. It is through brilliant knowledge that human transformed the world into a global village.

The proverb is found is to equally relevant in the ancient era, the medieval era and the present modern era. In the ancient era, the man who barely came out of ignorance and started searching and gathering the facts about the place and the surroundings was much better than the lion or other wild creatures who considered themselves as the owners of the forest and the surroundings. And hence, mankind has emerged as the most advanced creature and now leading the planet. Even in the medieval era, the illusion of knowledge had huge impact. Illusion of knowledge impacted many unorganized and princely kingdoms around the world. Hence, they became preys in the hands of the European Powers. Even some impacts can be seen in the present modern contemporary world as well.

The main factor of deceleration in life is one's own perception about himself that he knows everything even though it's vague. Obviously, its illusion that binds him and it becomes the main reason of diversion from the goal. It is fine when he accepts that he does not know about the particular thing properly or he does not have any knowledge about it. He can at least point out the spot which he is unaware and ignorant about in such scenarios. He can further research and find out the reliable facts and figures about the particular subject. And perhaps, he can work again on it with relevant knowledge. This step will play significant role in conversion of failure to success.

Likewise, this proverb can be related to the life of Stephen Hawking. Stephen Hawking has been paralyzed for over decades. He communicates using a single cheek muscle attached to a speech generating device. Despite of being paralyzed over decades, he has done tremendous works on physics and mathematics. He can be compared to Albert Einstein himself. He has enough knowledge about physics and the universe, however, he is still in his mission to find more facts and figures. So that he can enrich his knowledge and work for the betterment of the future of mankind without leaving any room for error as a single error can fail his mission. Hence, Hawking urges himself and his fellow researchers to gather more knowledge on every field as everything in the universe is interrelated to one another. A scientist with illusive principle and theory can never succeed. However, the failed work inspires other brilliant minds in science.

This proverb is closely related to another proverb "A little knowledge is dangerous thing." These two universal facts can be related to each other with knowledge being the common factor. A little knowledge is more dangerous than ignorance as an incomplete knowledge can lead the mission till halfway only and ultimately leads to failure. A little knowledge can also be termed as illusion of knowledge as the person with a little knowledge about the field live in the illusive world thinking he can complete the mission successfully with a little

knowledge he acquires and there would be someone on the way to guide him. The most relevant example is Abhimanyu, son of Arjuna in the epic the Mahabharata. He has a little knowledge about the warfare in the Chakravyuha. He knows the tactics to enter in the array but he doesn't know the tactics of exiting from the lotus shape array. He won't have gone in the array if he is completely ignorant about the array but he acquires a little and hence, he loses his life in the array itself, leaving behind his grand mission. Therefore, knowledge should be obtained at the right time so that it can be used at the right time and at the right place. Illusion should be kept away from the learning environment. People should be in illusion only while enjoying a grand magic show by a world celebrated magician or illusionist.

People should always stay away from illusion in the learning process. Ignorance can be erased by throwing light on the particular field but illusion of knowledge is very difficult to deal with. And hence, illusion becomes the greatest enemy of knowledge.

“The greatest enemy of knowledge is not ignorance, it is illusion of knowledge”, is certainly true of all different aspects of life. It is also true in learning process. Nobody is born intellectual. An intellectual like Stephen Hawking is made with endless knowledge without any illusive thoughts. They are the result of patience, sacrifices, effort and struggle. Everyone should get rid of illusion of knowledge and gain intellectuality through rigorous efforts.

ભત્તિયંરોપી રૂપદમ ડેલચિભમ્મ
અક્ષયિયંત્રે અંચક લક્ષ્મણી
તંત્રવ તંત્રલે ભૂત યોગત્ત ધરેરૂ
તેગાતીરૂ યાભીતી તેમત્ત ભત્તિયંરે તંત્રવભીત
ત્તવત્તયંત્રે અક્ષયંચકી ક્તમભીત-॥

ધેલ્લક યામત્તેન્ન ધરેલભ
અક્ષયંત્રે ગામ્મચેમ્મમ્મમ્મ ડેલ્લે
ડેલ્લેયંત્રે ક્તમ અંચક
અંચકલે તંત્રે ક્તમ
તંત્રે ગાલેભીત્તિયંત્રે ત્તમ્મલેલ્લેલ્લે
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ક્તમભીતભી ક્તમ્મલેલ્લેલ્લે તંત્રે અંચક!
તંત્રેભીત્તિયંત્રે ત્તમ્મલેલ્લેલ્લે ગામ્મલેલ્લેલ્લે!
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ધેલ્લક યામત્તેન્ન ધરેલભ
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Some Movies for the Weekend

1. **Black Sea:** When veteran salvager Robinson loses his job, he assembles a team of English and Russian men and goes on a rogue mission to find a Nazi U-boat filled with gold that was sunk in the Black Sea.

Directors Kevin Macdonald

Starring Jude Law, Karl Davies, Llewella Gideon

Genres Suspense, Adventure

2. **Sunny:** The life of a failed musician, sunny takes a dramatic turn as he smuggles himself back from Dubai to Kerala in midst of a global pandemic and shuts himself from the society.

Directors Ranjith Sankar

Starring Jayasurya

Genres Drama

3. **Friend Request:** Laura is a college student who faces unexpected and grave consequences when she unfriends a female loner from her high school on social media. Soon after, she and her friends are stalked by a demonic force.

Directors Simon Verhoeven

Starring Alycia Debnam-Carey, William Moseley, Connor Paolo

Genres Suspense, Horror

4. **Gravity:** Winner of 7 Academy Awards®, including Best Director! Astronauts Ryan Stone and Matt Kowalski are on a routine spacewalk when disaster strikes. Their shuttle is destroyed, leaving them alone in space - tethered to nothing but each other.

Directors Alfonso Cuarón

Starring Sandra Bullock, George Clooney

Genres Suspense, Science Fiction

5. Train To Busan: While a zombie virus breaks out in South Korea, passengers struggle to survive on the train from Seoul to Busan.

Directors Sang-ho Yeon

Starring Yoo Gong, Yu-mi Jung, Dong-seok Ma

Genres Suspense, Horror, Action

Maximizing Action and Minimizing Yell for Positive Changes

Book Review: A Walk to Remember

Lets read something new this weekend apart from self teaching books. Therefore, I brought this particular book from Amazon although I have already watched the adaptation some dozen times in my college days. I wanted to feel that screenplay through words penned by the author himself. So, lets find out if motion pictures have more weight or the words on the paperback. Hear out the review.

'**A Walk to Remember**' is another love saga from **Nicholas Sparks** that begins with unexpected meeting, love and ends with tragedy. The book features the protagonist Landon Carter narrating his past and the days he spent with Jamie Sullivan in the late 1950s at Beaufort High School in Beaufort, North Carolina.

Landon Carter is from the wealthy family where the grandparents have left huge mountain of wealth. However, Landon lacks a male role figure in his life as his parents live separately and he lives with his mother with rage and hatred on his head for his father. Hence, neglect pushes Landon to develop rebellious behaviour and at the very beginning of the story he is both adrift certain, confident and a typical teenager. There is more than Holden Caulfield when he encounters Jamie Sullivan, the daughter of a local minister and good girl of the school. Landon always try to avoid Jamie at any cost as being with her may prove costly for his peer image around. Then, the newly elected class president desperate for a date to the dance, he asks her, certain that she will be available. She accepts and that night Jamie helps Landon out of an embarrassing bind, revealing a strong character that intrigues him despite her relentless and isolating Christianity.

After Jamie asks Landon to star in the school's Christmas play, he develops a gradual and reluctant relationship with her. They rehearse, they walk home, they talk; when opening night arrives and Landon sees Jamie in a angelic costume, he realizes that he has fallen in love with Jamie. They nature their feelings until Jamie reveals the secret that forces Landon to realize what he holds most dear, despite what fate has handed them. Jamie still exists in him even though she departs physically.

The characters are beautifully penned and the love between a sick girl and a rebellious boy is divine. The character of Jamie is itself a divine. The undying love the boy has for a girl despite knowing that she is the guest for only few days is worth praising. Landon is totally changed by Jamie and they both are lost in one another. It is just a beautiful love saga.

The movie of the same title was released in 1999 with Shane West as Landon Carter and Mandy Moore as Jamie Sullivan. They did complete justice to the roles. It was like the characters have walked out of the book and entered the silver screen. However, there were some minor changes in the script like the setting; the film was set in 1990s to make it relevant to the audience. And it did so. It performed very well in the box office. 'A Walk to Remember' is the introduction page of romance for every teenagers. It remains evergreen.

Result for the Recitation Competition

The result is here. And the Baseline Team thanks all the participants who came up on board to pay homage to the legend **Hijam Irawat** on his birth anniversary. Baseline Team congratulated all the participants again and wishes all the best for future endeavor.

SL No.	Name	School	Rank
1	Ksh Richel Devi Moirangthem	PR English School	1st
2	Radhapyari Devi Sonica	School Catholic	2nd
3	Moirangthem	School	3rd