Title: Explaining Blockchain to a 5 five-year-old

Objective: The aim of this paper is to carry out a simplified and well detailed explanation on the basics of Blockchain technology. At the end, a five-year-old kid or less after reading should have a full grasp on the basics of blockchain technology.

Resources: Pictorial objects to enable easy grasp of the topic by helping the kid(s) visualize major points

Course Content:

- What is Blockchain Technology?
- Terms in Blockchain technology?
- Features of Blockchain Technology
- Importance of Blockchain Technology

What is Blockchain Technology?

Blockchain technology is the tool that allows you keep and share important information in a safe way

Blockchain technology is what gives you security over whatever digital valuables you have

Blockchain technology is used a lot in cryptocurrency. Cryptocurrency on the one hand refers to digital currencies e.g bitcoin, litecoin, ethereum and so on. These currencies are digital because they are not physically accessed rather it is by using a designed software to multiply or trade with them

Example: If everyone in your class has an apple except David, your teacher asks each one of you to keep your apple in your locker and get it locked up, David won't be able to take anyone's apple because he can't take the apples from the locked boxes.

Blockchain here simply means that your information has been kept safe in different ways without you involving any other person apart from the tool keeping the information

Each box of apple is called "BLOCK", while bringing together the boxes of apples results to a "BLOCKCHAIN".

BASIC TERMS IN BLOCKCHAIN TECHNOLOGY

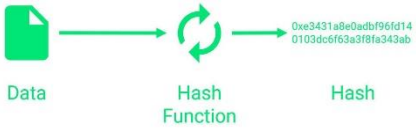
Encryption *{ɛŋˈkrɪpʃ(ə)n}*: Encryption means hiding valuable information with the use of the private and public keys respectively.

Decryption (*/diˈkrɪpʃ(ə)n/*): Decryption is the opposite of encryption, it means unveiling a valuable information. In Blockchain, it means expose a valuable information.

Cryptocurrency: Cryptocurrency refers to digital currencies e.g bitcoin, litecoin, ethereum, e.t.c

Nodes: When a transaction is being made and the information is stored on the spreadsheet (ledger), this information are being distributed across computer systems, these computer systems are called Nodes.

Hash: Hash is a program that converts letters into a key which is a set of letters and numbers for the purpose of encryption.



Fork: This is not the fork you use in eating. Fork in blockchain and cryptocurrency is when one makes changes in the blockchain system in order to avoid attack. Fork is a technical situation whereby the issue of blockchain is being resolved to a agree to something.

Features of Blockchain Technology

1. **Security (sɪˈkjʊərɪti)**

Blockchain technology helps to safeguard information that are needed in avoiding harmful attack. The way it has been built has made it difficult for any kind of manipulation which means there is an impossibility that information stored can be edited or deleted. Information can be read but can't be accessed. Also, the fact that it is a chain of blocks makes it easy to detect any form of attack.

2. **Privacy (prɪvəsi)**

Privacy is when something is free from public attention. In Blockchain technology, it means one's information can only be accessed by one's self, no one else, neither can one access any other person's information. Apart from the user and the system, there is no other person or entity involved while carrying out activities. There is better privacy with the use of the private and public keys respectively.

3. Ledger */ˈlɛdʒə/*

The blockchain technology is in form of a ledger system i.e it is a kind of spreadsheet which has the information about the activities one carries out as a blockchain user. After storing an information, it is being distributed across several computer systems

4. Decentralization */ˌdiːsɛntr(ə)lʌɪˈzeɪʃ(ə)n/*

Decentralization simply means giving authority to different people, it doesn't put power in the hands of a single person. In blockchain technology, with the use of the Peer 2 Peer (P2P) network, decision making are being carried out in different locations

which leads to saving time and resources and still producing better results and improving security for the users

Importance of Blockchain Technology

- It is reliable because it secures important information
- It is transparent because it can't be manipulated (edited or deleted)
- It can highly be trusted because it allows you alone access your important information in the system

Conclusion: Having simplified the concept of blockchain technology with the use of simple grammars and pictorial information, any kid by now should have a grasp on the basic concepts of the blockchain technology. Also, it is highly essential every kid learns about this world changing trend as the revolution of digital currency is growing so fast, leaving youngsters behind will be somewhat detrimental. Therefore, digital education should be given to them as early as possible.