



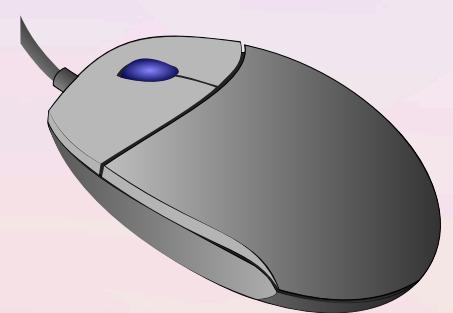
Computer Technology

what is it's purpose?





Printer



Mouse



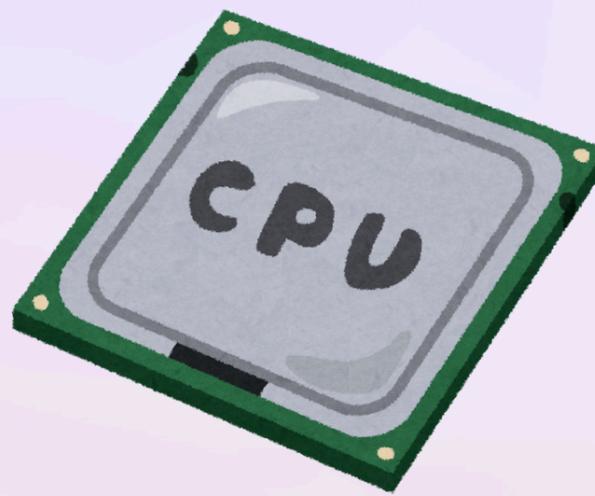
Keyboard

What is a computer hardware?

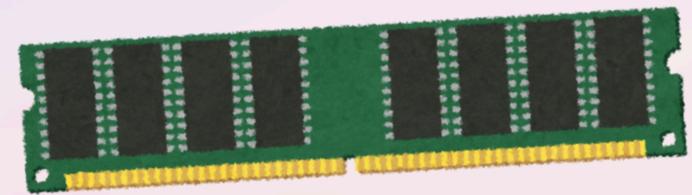
the external and internal devices and equipment that enable you to perform major functions such as input, output, storage, communication, processing, and more

in other words it is the physical aspects of a computer!

Hardware Components



CPU



RAM



hard drive

Central Processing Unit (CPU)

The Central Processing Unit (CPU) is the primary component of a computer that acts as its “control center.” The CPU, refers to it as the “central” or “main” processor, is a complex set of electronic circuitry that runs the machine's operating system and apps.

Memory (RAM and Storage)

RAM is a common computing acronym that stands for random-access memory. It is your computer's **short-term memory**, It's where the data is stored that your computer processor needs to run your applications and open your files. Long term data refers to your Hard drive which is the storage. Disk drives—whether they are traditional hard disk drives (HDDs) or newer solid-state drives (SSDs)—are used for long-term data and file storage. RAM only holds the data you need for the apps and files that are currently open. When you close an app or shut down your computer, the data is cleared out of the RAM.



What is a computer software?

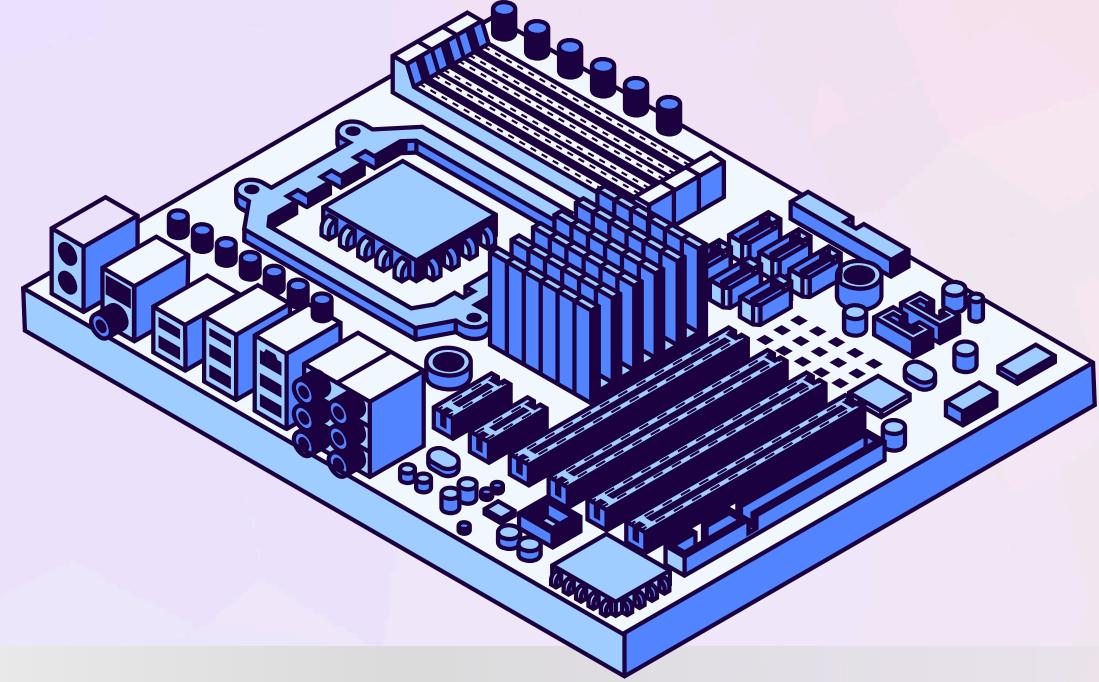
Computer Software refers to the collection of instructions, data, or programs that are used to operate computers and execute specific tasks. These are important for the functioning of modern computing systems

Software Components

a collection of functions that provide a “single responsibility” to the application threads and application functions

Applications, video games, videos and etc.. are examples of a software component





Hardware implementation

How can they be applied in different institutions?

WAYS TO APPLY:

- **Education**

- This is a way to help students learn and be able to access, manage learning materials, research and be able to implement online learning

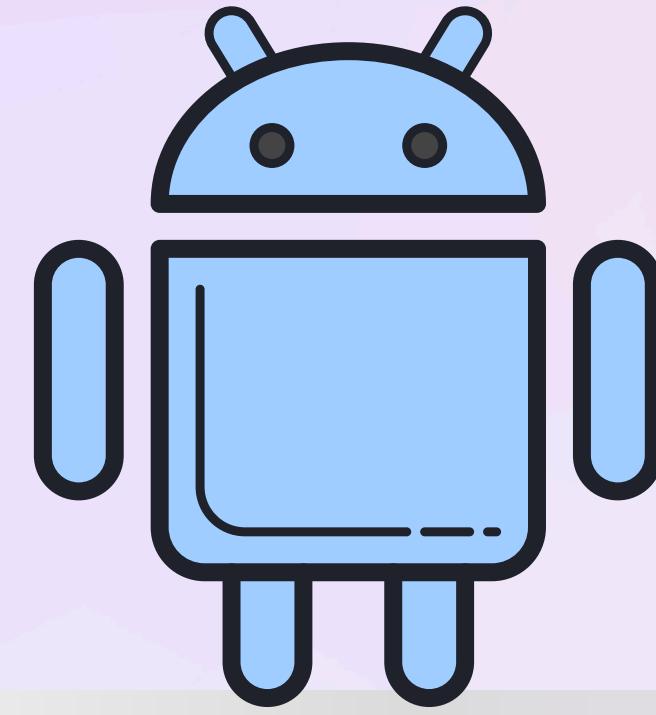
- **Security and safety**

- surveillance cameras
- emergency communication systems (walkie talkie, etc..)

- **Communication**

- devices such as phones, laptops, computers, etc.. can be used to transfer, communicate and access anything, anywhere you go.

- There are many ways to implement hardware components that can assist and improve our lives through these inventions. Maximizing it to the fullest potential by implementing the use of this technology to ensure its benefits towards the community.



Software implementation

How can they be applied in different institutions?

WAYS TO APPLY:

- **Education**

- Learning platforms such as Canvas, learning apps and many more are ways to aid students by accessing these learning materials easily.
- It helps them be more organized by being able to track over their progress through these apps.

- **Communication**

- Social media is such a huge impact towards every living person in Earth. The creation of Internet made communication better which means that they are able to communicate freely at any time and anywhere they want.
- Websites and applications can be used to organize, collaborate and share ideas or opinions within one another.

- **Accessibility**

- Apps have made it easier for us since we are able to access everything with just a single button. We are able to connect with services in which we are able to transport, deliver and access any kind of information we want online.

- Applying this across various domains and communities, it helps us in our day to day needs. By improving and prioritizing the needs of its users helps the development, relevancy and the effectiveness of these applications.

Reflection

A computer's Hardware and Software are the fundamental foundations of technology. The advancement of our society came through its implementation. It has helped us in terms of our safety, education, accessing information, communication and health. It has helped us during in times of crisis, being able to respond to disasters and be able to help those in need quickly.

Additionally, as technology becomes more integrated into daily life, the importance of privacy and security cannot be overstated. With the increased use of digital platforms comes the responsibility to protect personal data and ensure cybersecurity. Communities must implement robust policies and educational programs to safeguard against potential threats, fostering trust among residents and encouraging the responsible use of technology.

The challenges we may face may relate to the lack of accessibility, money and the opportunity to obtain this privilege. Recognizing that many places in the world still lack technology and paving the way for their own advancement may help and solve majority of it's problems. In this way they won't be able to suffer as much as they are right now since they are given the platform to harness and develop their skills.

In conclusion, the relation between hardware and software holds the potential to transform communities and enhance the quality of life. By integrating technology into various aspects of our community things such as life education, healthcare, economic development, and social engagement. We are able to harness it's benefits. However, despite these benefits it is important to address challenges such as access, sustainability, and security. By fostering an inclusive approach to technology implementation, communities can create a brighter, more connected future, ensuring that all members can thrive in an increasingly digital world.

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Thank You.
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