WEEK 7(05.11.24) Listening Activity for Memory

In this unit you will learn the differences between computer and computer

storage. Memory and storage are important concepts to master in Information Technology. The two terms are often used interchangeably, so it is important to understand the differences.	
Computer memory needs to be quick. It is constantly feeding the CPU with data to process. Since nobody likes to wait for a computer, high-quality computers will have fast processors with lots of quick memory. This type of memory is commonly known as	
disappears when the computer loses power.	
Because memory needs to be much faster than storage, it is rather more expensive the storage per GB. A typical desktop computer today (in 2016) has between 2GB and 320 of memory running at speeds of anywhere from 1.2 GHZ to 3.2 Speeds tend to go up about 10% every two years.	GB
If you are a gamer, video editor, or physics, you may be aware of video memory. Video memory is special RAM which is even faster and more expensive that normal system RAM. This RAM is reserved only for the graphics and is thus kept separate from the main system, which sits on the motherboard close to the CPU. A typical dedicated video card will have anywhere between 2GB and 12 of dedicated RAM.	n
But of course computers do not process all the data they have at once. They also nee to save some data for long term use. This is where	ng ot ith i a s s
processed by the	ot ith s s

In the future all magnetic storage types will become obsolete. They will soon all be
by <u>SSDs</u> using semiconductor technology. SSDs have 3 key advantages over
magnetic storage devices: speed, lack of moving parts, and low power consumption.
This makes them ideal for laptops where battery life and durability are huge issues.
SSDs are fast as well, and can read data at around 200MB to 800 MB per second.
Unfortunately, SSDs are currently expensive magnetic storage per GB,
but this should change soon.
storage is another technology which is quickly becoming legacy. Very popular
in the 90's and early 2000's, optical storage works by a laser either burning or reading
data off a plastic coated with various types of light sensitive materials. Due to
reliability and speed limitations, optical storage is not used as a primary means of data
storage. It is (or increasingly was) used mostly to affordably deliver large like
movies, games, and systems. In case you still don't understand what optical
storage is, typical examples are DVD or Blu-Ray drives.
Well, that about covers it for the current state of memory and storage. But there are
some grey areas and as always, such as ROMs and EPROMs, which are
somewhere in between memory and storage. Embedded systems, BIOS' and older
video game used these for various reasons, mainly copy protection and
cost.
What about the? Expect a gradual convergence where there is no longer a
need for both storage and memory in PCs. Some new such as quantum
memory may arrive which has the advantages of both memory and storage. Until that
time arrives, always buy a with the most memory and storage you can afford.
Computer companies typically charge you a lot more for PCs with a decent amount of
and fast storage. Why? Because they know without it, your computer will be
slow and completely full very quickly, forcing you to upgrade or buy into their cloud
storage solutions like Apple's iCloud, and 's OneDrive.

Listen later and fill the gaps:

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