

What are you hoping to get out of this course?

To deeply understand technology

If, like me, you sometimes count using your fingers, odds are you can count 1 point up to 5 things on one hand (using 5 fingers). But that's if you're using "unary" notation, whereby you only have a single digit (pun intended) at your disposal, a finger, which you can think of as a 1. Binary, by contrast, allows you to use two digits, 0 and 1. How high could you count on one hand (with 5 fingers) using binary? Assume that a raised finger represents a 1 and a lowered finger represents a 0.

33

Recall that we looked at ASCII in lecture, which uses just 7 or 8 bits to 1 point represent letters of the alphabet. Read up on "Unicode," as via Google, and explain in your own words how Unicode is able to represent many more symbols than can ASCII, which is particularly helpful for written languages with many more characters than English.

ASCII can only represent a maximum of 256 characters, it's not possible to represent many symbols like emojis using ASCII. Unicode was created to allow more characters sets than ASCII. Unicode is capable of representing 65,536 different characters and a wide range of characters.

01000001 01101110 01110011 01110111 01100101 01110010 00100000
01101001 01110011 00100000 00110100 00110010 00101110

1 point

There's a way to make this meaningful; find it!

Answer is 42.



Describe at least one key difference, other than size/storage capacity, between RAM and hard disk.

1 point

RAM is a volatile memory it will lose its data if the power is turned off. Hard disk is a non-volatile memory it keeps the data stored even if the power is turned off.

Some computers, particularly PCs, come with stickers that say "Intel Inside." What is it that's inside of most computers that's made by Intel? In your own words, what does that hardware do?

1 point

It means that your computer has a CPU made by intel. A central processing unit (CPU) is the brain of the computer and it performs arithmetic, logical, controlling, and input/output operations as per the program instructions.



Roughly how much RAM might a new laptop come with these days?

1 point

8 Gigabyte.

Roughly how much disk space might a new laptop come with these days?

1 point

1 Terabyte.

Name a single device that can be connected to a laptop or desktop via "USB".

1 point

Pendrive.



What is a device driver?

1 point

A device driver is a computer program that operates or controls hardware devices that are attached to the computer. Using the device driver operating system can communicate with the computer hardware.

Even though both are wireless, how does Wi-Fi differ from Bluetooth?

1 point

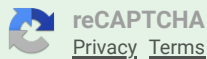
You're welcome to Google as needed, but take care to distinguish the two in your own words.

Bluetooth is used to data transfer over short distances wirelessly connecting devices. Where Wi-Fi is used to transfer the data at high speed and allowing the device to connect to the internet.

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