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CS2210
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Lab 00

What takes place when formatting a microSD card (or any drive)?

- When formatting a drive, all data on the drive is erased. The file system can also be changed at this point in time. Partitions can also be created. Source

What is a file system? Provide examples of two along with a comparison of them. What file system does Windows 11 use? macOS?

- A file system is the way that the files are named and how they are placed in storage. File allocation table (FAT) and Global file system (GFS) are two examples. FAT is supported by Windows, while GFS is supported by Linux (and macOS). FAT lacks performance compared to GFS. Windows 10 uses NTFS while macOS uses APFS. Source

Which file system does Raspberry Pi OS use?

- Raspberry Pi does not use a specific file system, it uses a standard created by Linux called Filesystem Hierarchy Standard (FHS). The SD card we used was formatted to FAT. Source

What is a partition? Can you have multiple partitions on the same storage device with different file systems on each partition?
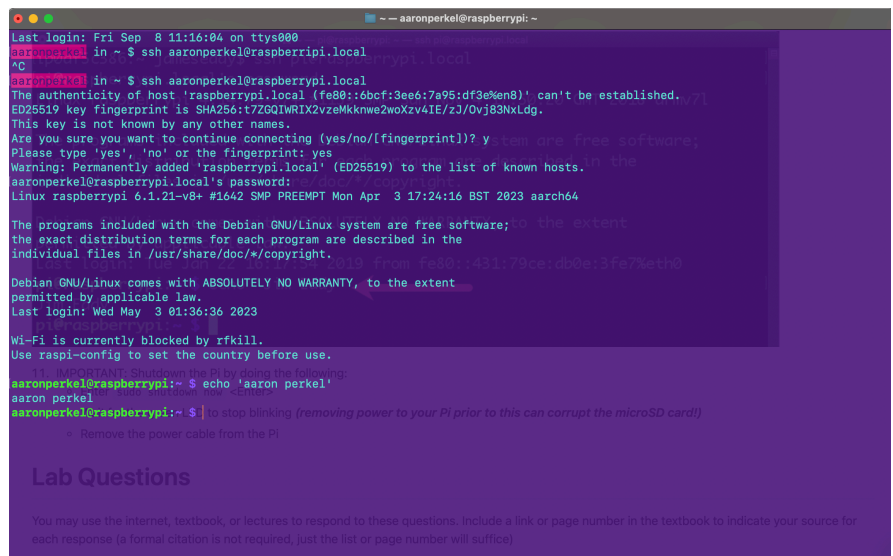
- A partition is a separate segmented part of a storage drive. Yes, you can. Source

Screenshot from Step 10

What information needs to exist on a partition for you to be able to "boot" an operating system?

- The system files used to start the operating system need to exist on the boot partition. Source

What is SSH? Describe.

- SSH stands for Secure Shell is a network protocol that allows two computers to communicate. The "Secure" part of SSH indicates that the communication between devices is encrypted. This makes it useful over shared or otherwise insecure networks. Source