Hardware:

1. The brain of the computer, how fast it runs, only one caching core, multiple caching cores
2. Occur in order, occur at different times
3. Temporary storage(Random Access Memory), more permanent memory(Read Only Memory), hard disk
4. Speed, efficiency, storage space
5. Ram: wiped without power, ROM: hard disk, Flash Memory: speed of RAM/storage of ROM
6. For better optimization, make sure software is compatible with everything
7. Mouse, Keyboard, Gamepad, Microphone, HTC Vive, Serial Ports, USB Ports
8. Monitor, Speaker, HTC Vive,

Software:

1. Hardware is physical, software is not
2. a way to talk to the computer, a way to talk to a browser, programming is talking to the computer directly but markup is being interpreted
3. a program runs In the background without user input more specific use than a program, an application a computer program with an interface, and a software suite is a collection of
4. a file that contains a program, a file that links a bunch of programs together, they each contain programs, DLL’s can’t run on their own, they need to be called
5. IDE is integrated development environment, edits plain text, specifically for writing purposes
6. CLI is command line interface, GUI is graphical user interface, CLI-Pros: fast, efficient, super lightweight, CLI-Cons: not user friendly, no window management, GUI-Pros: Easy to use, looks nice, GUI-Cons: heavy on your system, takes up hard drive space, promotes downtime at work because people are playing videogames
7. Interprets HTML markup and CSS to form webpages, points to the file to display, firefox, chrome, safari, opera, netscape navigator
8. Directory holds all the files, a collection of relevant data, the file encryption, files only the system can see, folder properties > show hidden
9. The location of a file on your disk, the path from the root directory (C: in windows), path to file from where you are now, both show location of a file, one shows from root the other from current directory, Relative: ./styles/style.css, Aboslute: /Users/caey/Documents/bootstrap\_test

Operating System:

1. Manages computer hardware and software resources, provides common services
2. 64bit allows for different hardware to run like more RAM
3. allows the device to better communicate with the computer
4. instance of a computer program being executed, small sequence of program instructions, multiple threads make up a process
5. optimization
6. windows, OS X, Ubuntu, Damn Small Linux, Arch, Gentoo, Minix, Puppy Linux, FreeBSD, Nextstep