Computer Fundamentals

CLARUSWAY©
WAY TO REINVENT YOURSELF

Agenda

- Operating Systems

Introduction

Were you able to finish pre-class material?

Students choose an option
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Introduction

How long did it take to finish it?

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Students choose an option
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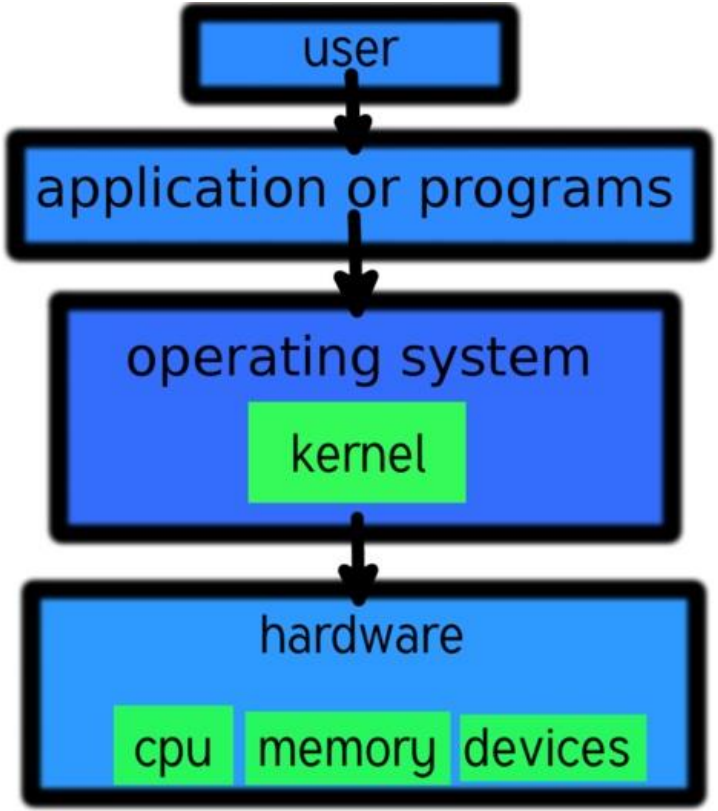
Operating Systems

- Music
- Video
- Chat
- Shopping
- Coding
- Reading
- Gaming

Operating Systems

- **OPERATING SYSTEMS:**
  AN OPERATING SYSTEM (OS) IS SYSTEM SOFTWARE THAT MANAGES COMPUTER HARDWARE AND SOFTWARE RESOURCES AND PROVIDES COMMON SERVICES FOR COMPUTER PROGRAMS REQUIRE AN OPERATING SYSTEM TO FUNCTION.

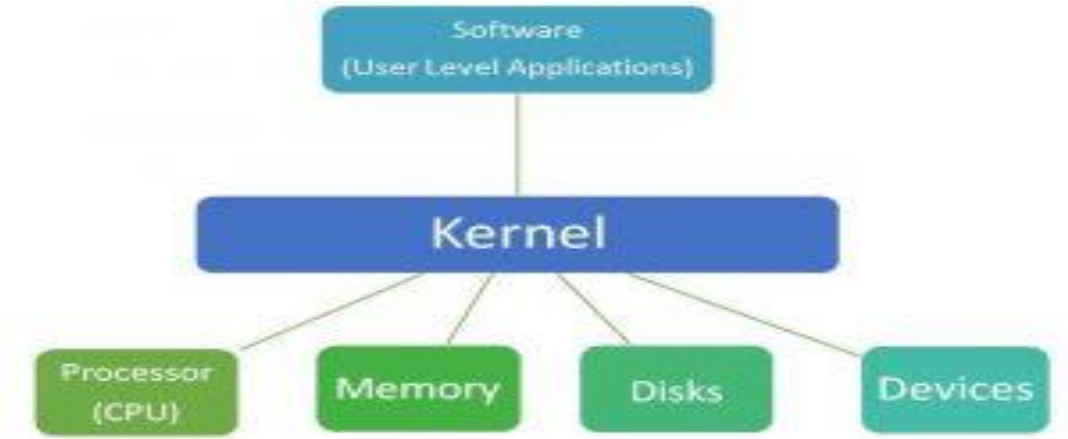
Operating Systems



Operating Systems

Kernel:

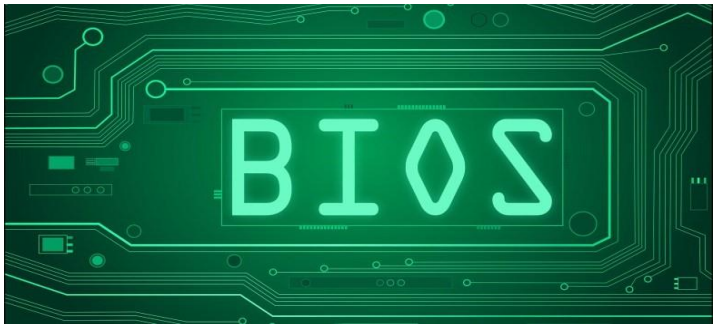
It connects applications to the actual processing of data. It also manages all communications between software and hardware components to ensure usability and reliability.

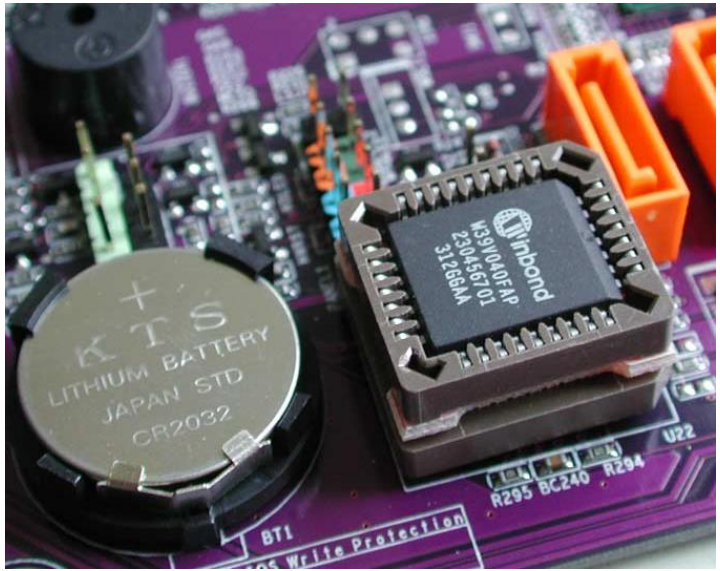


Operating Systems

BIOS (Basic Input Output System):

It is firmware used to perform hardware initialization during the booting process (power-on startup), and to provide runtime services for operating systems and programs.





Operating Systems

Question: What does OS manage?

Students, write your response!

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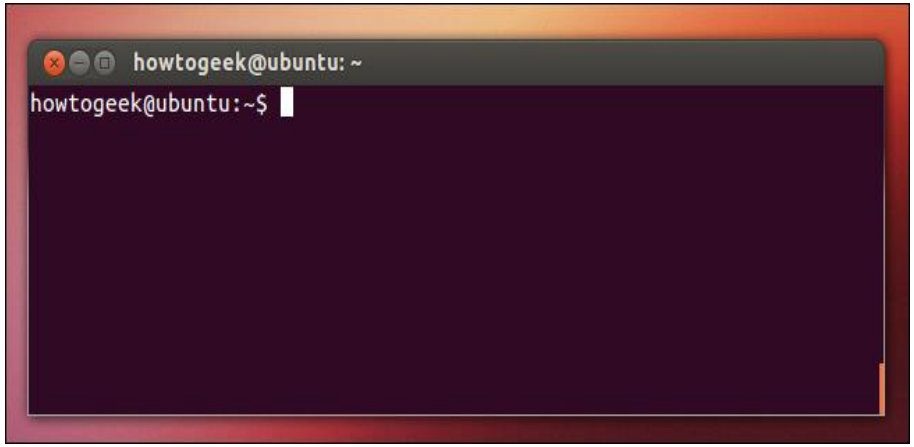
Operating Systems

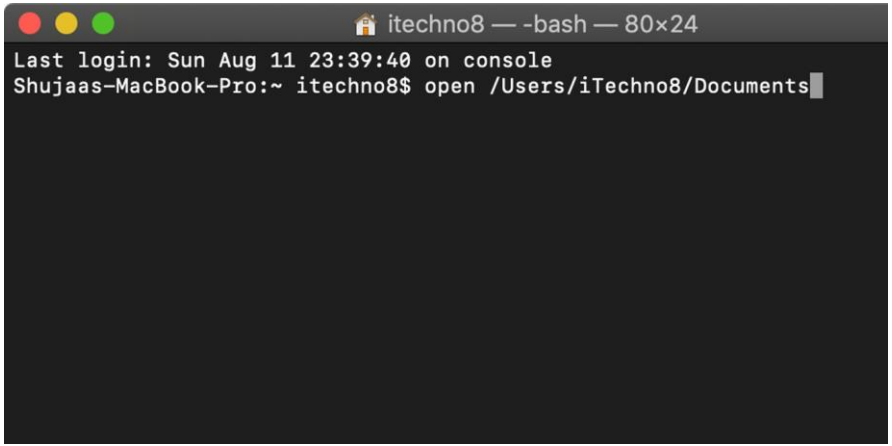
Operating Systems

Please write your computers and mobile phones operating system.

Operating Systems

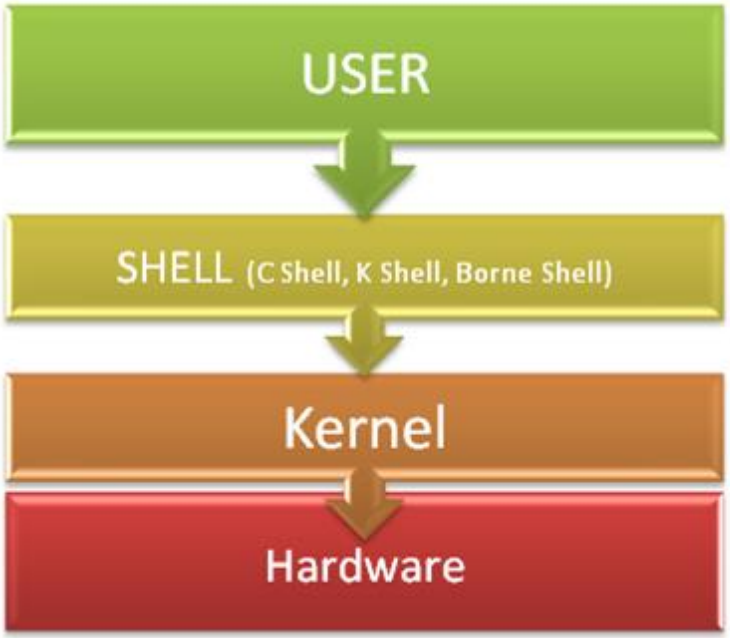
- **Terminal**

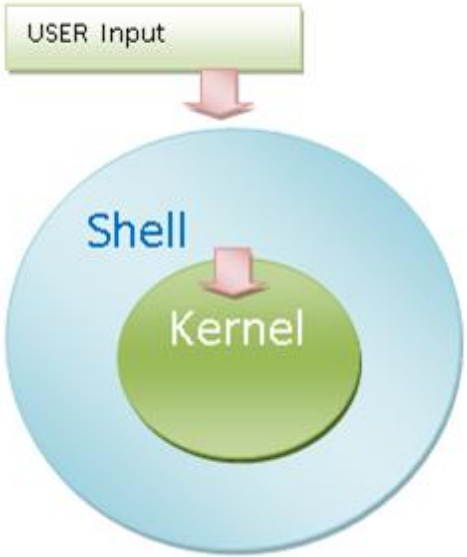




Operating Systems

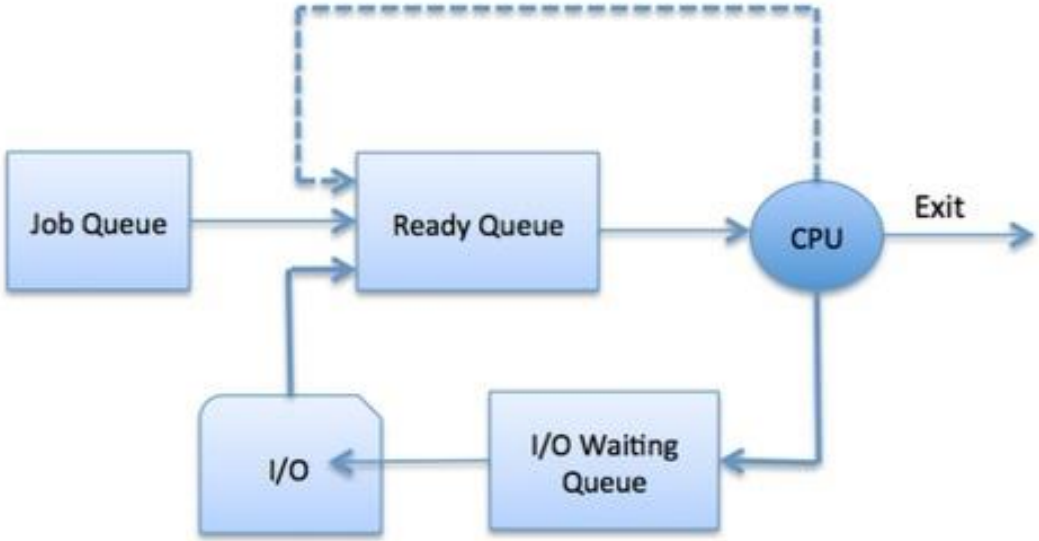
- **Shell**





Operating Systems

What do you know about scheduling?



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REINVENT YOURSELF
Students, write your response!
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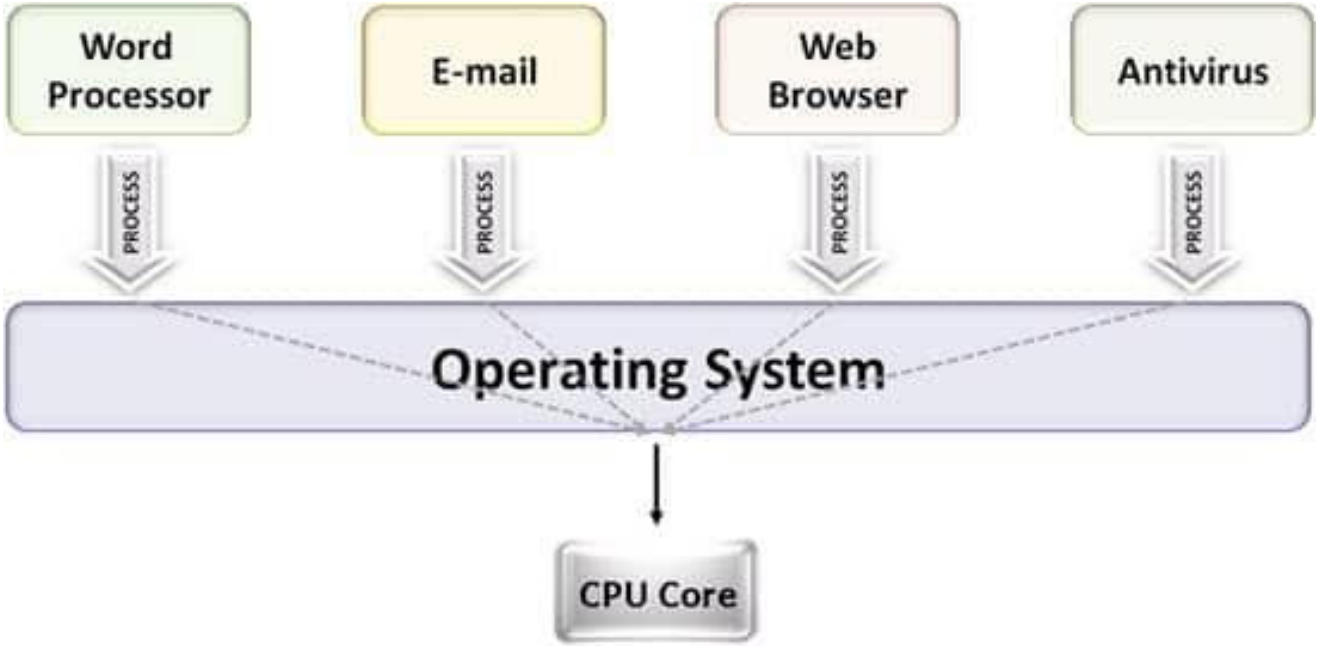
Operating Systems

Scheduling:

- Multiprogramming
- Multiprocessing
- Multithreading

Operating Systems

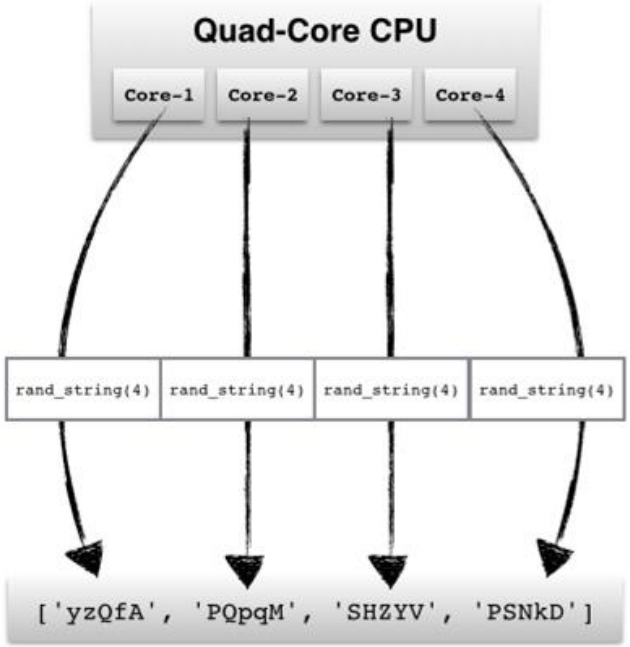
- Multiprogramming



Operating Systems

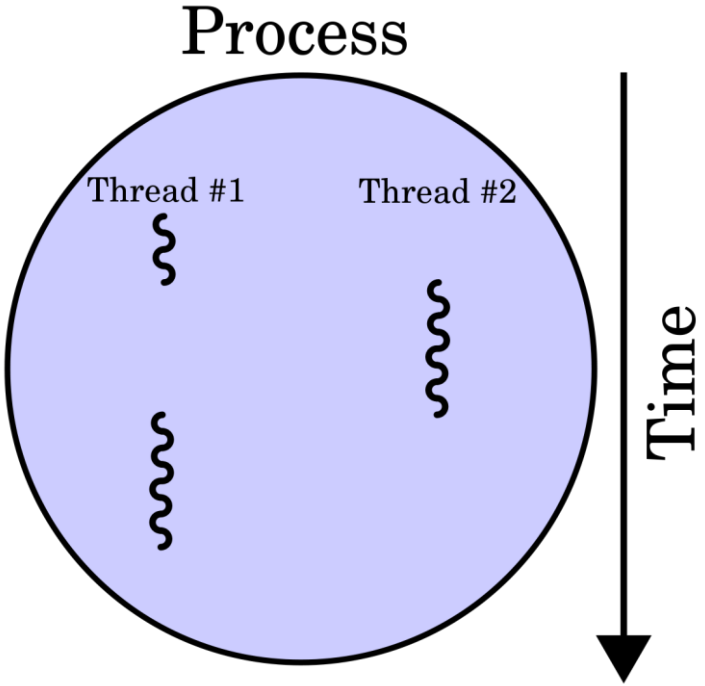
- Multiprocessing

[parallel processing]



Operating Systems

- Multithreading

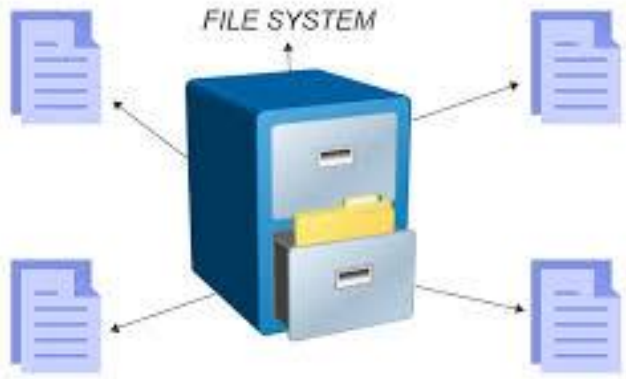


Operating Systems

What is the difference between processes and threads?

Operating Systems

- **Files:**
  Files are spaces on your computer where data is stored.

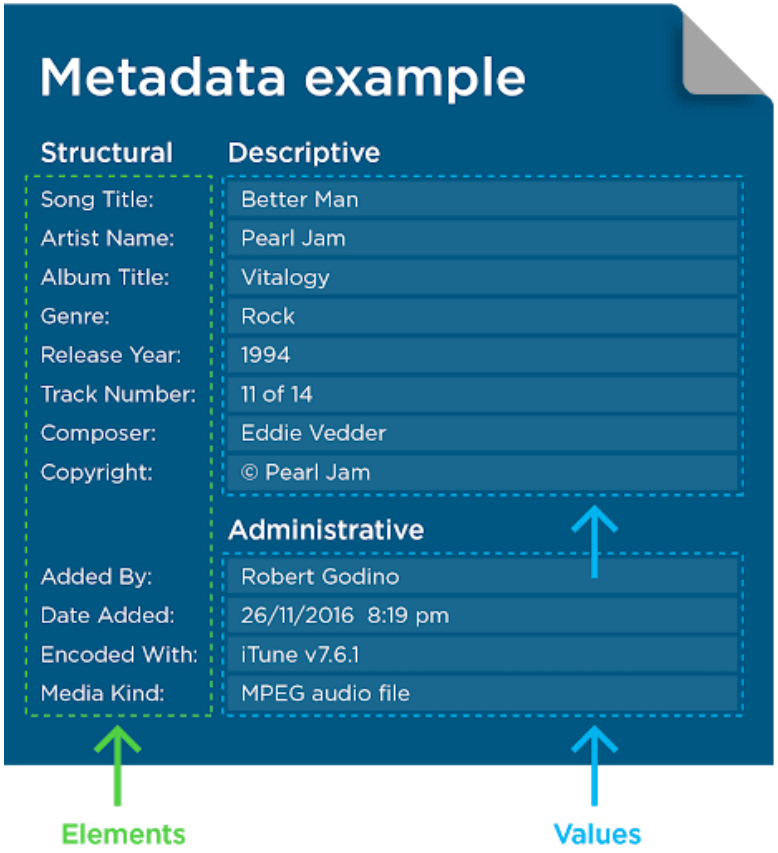


Operating Systems

- **Metadata**

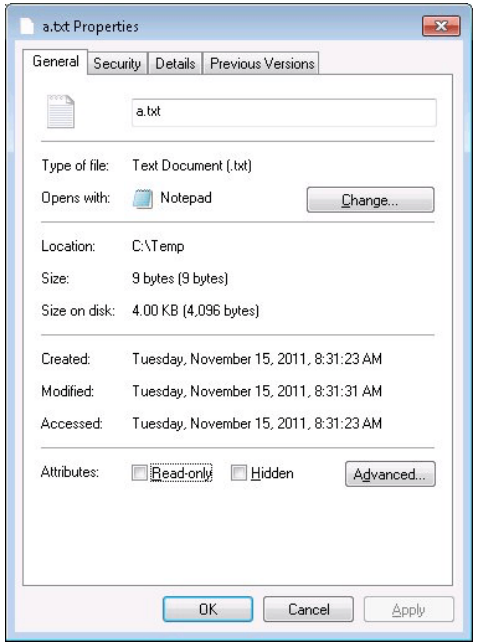
Operating Systems

- **Metadata**



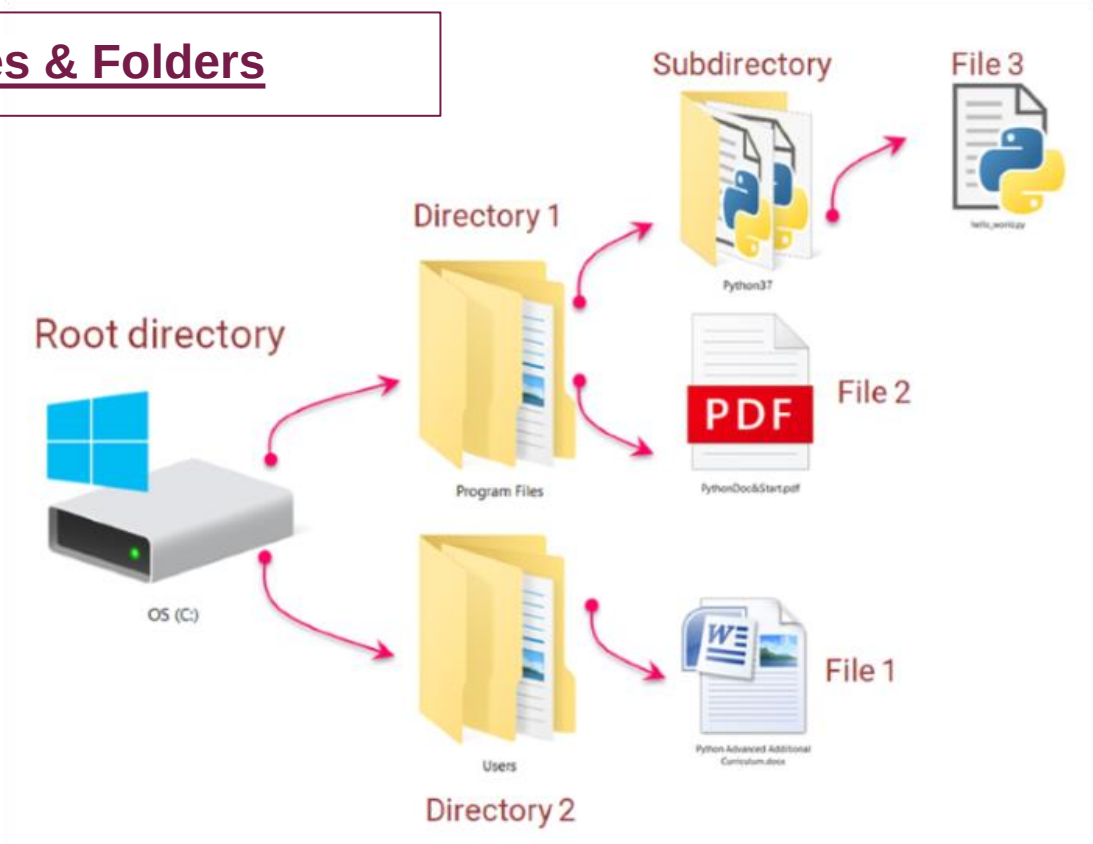
Operating Systems

- **File Attributes:**
  File attributes are metadata associated with computer files that define file system behavior.



Operating Systems

- **Directories & Folders**



Drag your dot to how you are feeling:

Keep going, I understand

I’m a little confused

Stop, I need help!

Students, drag the icon!

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Kahoot!

THANKS!

Any questions?