Operating System Structure

The User Interface

- Operating systems provide an environment for the execution of programs, and services to those programs.
- One set of operating system services provides functions that are helpful to the user.
- The user interface is the way users interact with the operating system.
- There are two types of user interfaces:
 - 1. The **command-line interface (CLI)** is a way the **user** can **interact** with the **operating system** through a set of **commands**.
 - 2. The graphical user interface (GUI) is a way the user can interact with the operating system in a graphical environment.
- Any operating system user interface should allow the user to perform file-system manipulation, execute programs, and interact with IO devices.
- Additionally, the user interface should handle error detection, resource allocation, and device security behind the scenes.

