



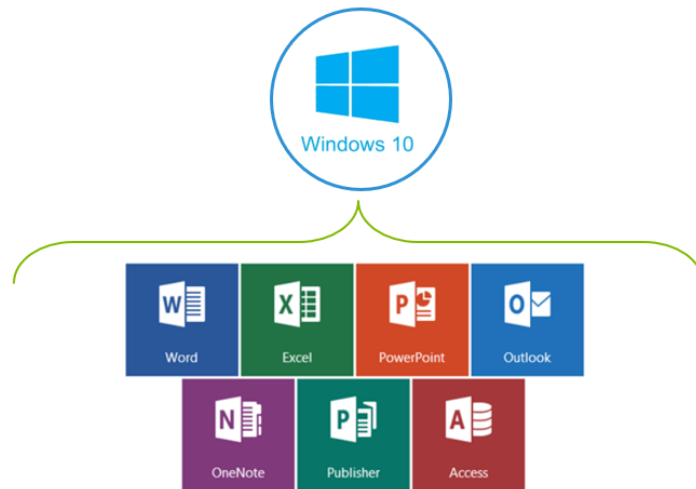
Need for Operating Systems

Session: Need for Operating Systems

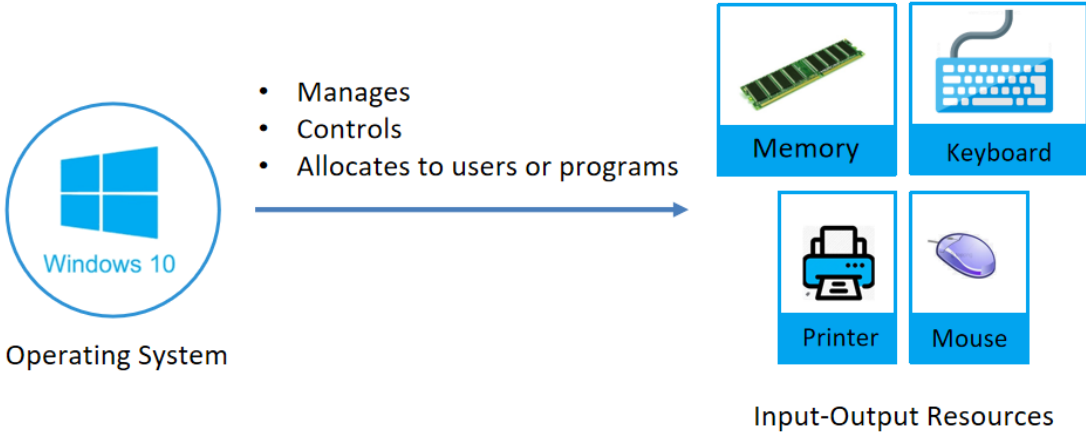
Need for OS



OS as a Platform for Application Programs



Managing Input-Output Unit



Consistent User Interface

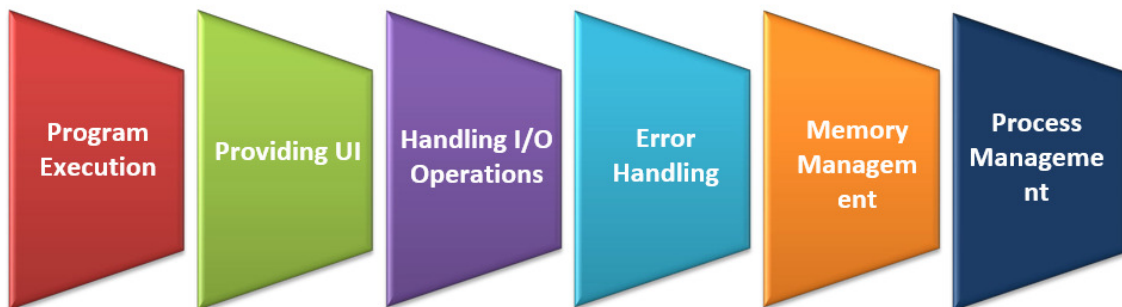
- Provides easy-to-work user interface
- Helps the user to focus on the content and be productive as quickly as possible
- Provides templates and UI components to make it easy for the user

Multitasking

Operating system manages memory and allows multiple programs to run and even communicate with each other through shared memory.



Characteristics of an OS



Functions of an OS

 Memory Management	 Processor Management	 File Management	 Device Management
 I/O Management	 Secondary Storage Management	 Security	 Command Interpretation
 Networking	 Communication Management	 Job Accounting	

Activity

What role do programs play in the OS?

1. Name three characteristics of an OS.

2. Name any three functions of an OS.

3. An OS can only run one application at a time on the computer. (True/False)

4. What activities does OS carry out for memory management?

Recap:

- Operating system is a medium between the user and the machine.
- OS is designed in such a way that it can operate, control and execute any application program.
- OS provides easy-to-work user interface.
- Operating System manages memory and allows multiple programs to run and even communicate with each other through shared memory.
- The various functions of an operating system are:
 - Memory management
 - Process management
 - File management
 - Security
 - Communication management
 - Job accounting