Operating Systems

LEC 5

First-year students

Computer Science

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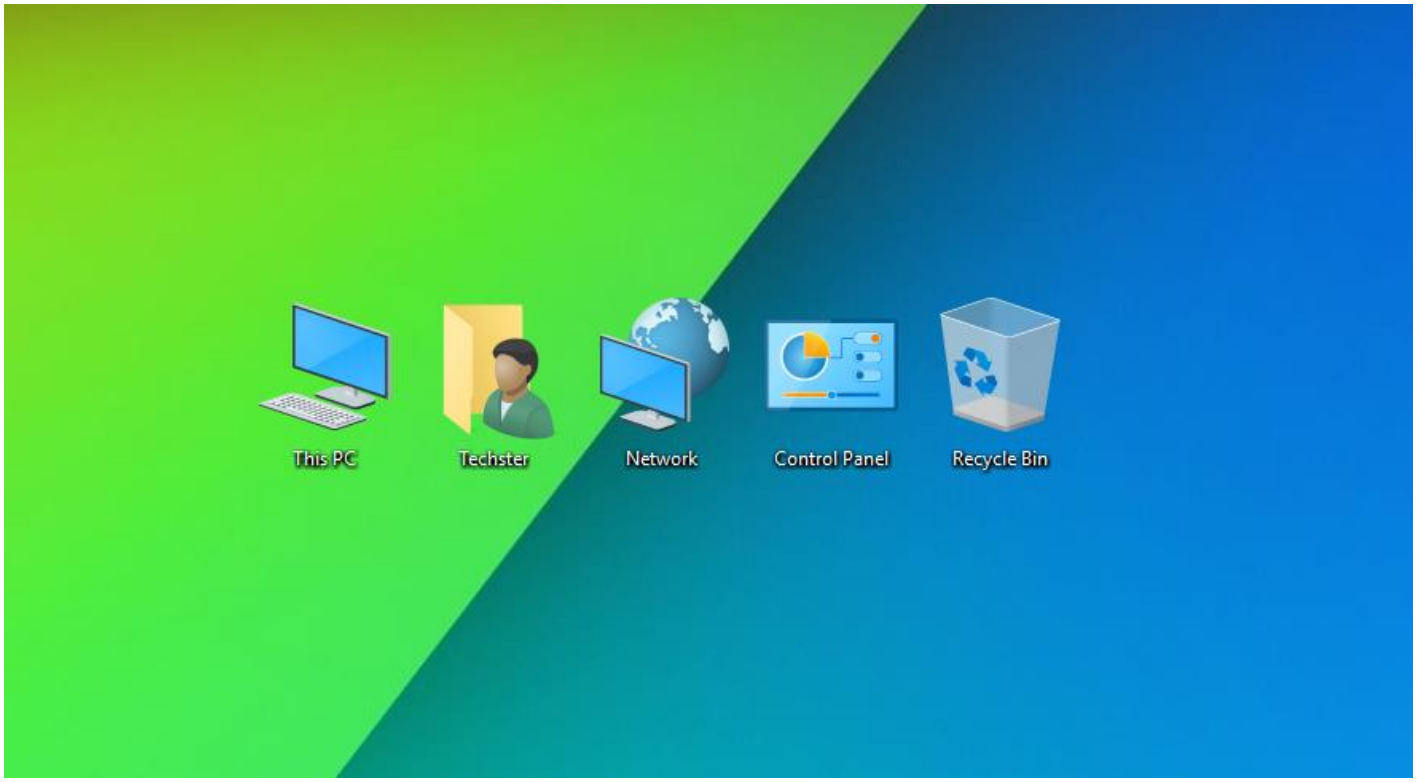
1 What is an Operating System?

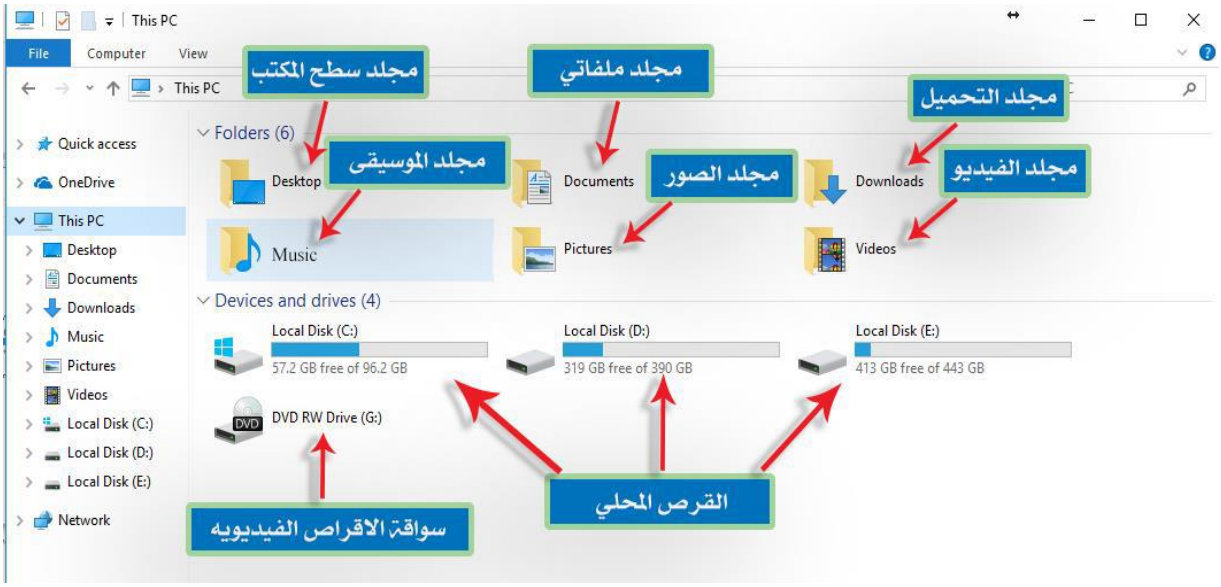
- Definition: Software that manages computer hardware and software resources.
- Functions:
  - Process management
  - Memory management
  - Device management
  - File management
- Examples: Windows, macOS, Linux, Android

2 Icons in Windows -10

Summary of Icons in Windows Operating System



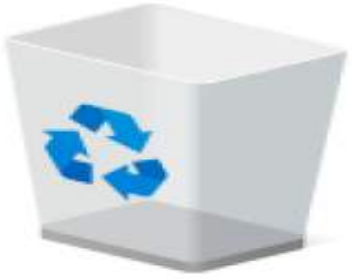
1. This PC Icon: Displays connected storage drives and user folders like Documents and Downloads.



2. Documents Icon: Represents the user's personal storage area for files and documents.



3. Recycle Bin Icon: Temporarily holds deleted files for potential restoration or permanent deletion.



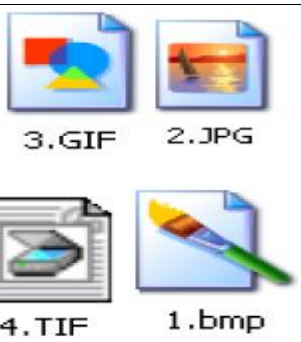
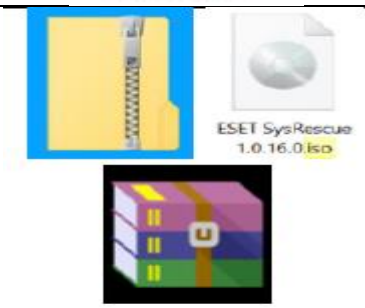
4. Network Icon: Manages local network settings and accesses shared resources from connected computers.



5. Control Panel Icon: Provides access to system settings for configuration and management.



3 Types of Files in Windows

No		
1	**Microsoft Word (.docx): A formatted text document that may include images, created using a word processor.**	
2	**Microsoft PowerPoint (.pptx): A presentation file consisting of slides with formatted text and graphics for display.**	
3	**Microsoft Excel (.xlsx): A spreadsheet document organized into rows and columns, often using formulas for calculations.**	
4	**Image Files (.jpg, .gif, .bmp, .tif): Graphic files used for storing visual images.**	
5	**HTML/HTM (.html): A formatted document intended for display on the internet as a webpage.**	
6	**Compressed Files (.rar, .zip, .iso): Files that have been compressed to reduce size for storage or emailing.**	

7	**Audio Files (.wav, .mp3, .ra): Files containing audio data created with specialized audio software.**	
8	**Video Files (.AVI, .MPEG, .MP4): Files that contain video data created with video processing software.**	
9	**Executable File (.exe): An application file that runs an actual program and cannot be manipulated.**	
10	**System Files (.sys, .drv): Files that the Windows operating system reads and accesses directly.**	

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Multiple Choice Questions

1. What is the primary function of an operating system?

A) To create documents

B) To manage computer hardware and software resources

C) To run applications

D) To connect to the internet

2. Which of the following is NOT a function of an operating system?

A) Process management

B) Memory management

C) Web browsing

D) Device management

3.What does the "This PC" icon display?

A) Network settings

B) System settings

C) Connected storage drives and user folders

D) Control panel options

4.Which icon temporarily holds deleted files?

A) This PC

B) Documents

C) Recycle Bin

D) Network

5. Which of the following operating systems is an example of a desktop OS?

A) Android

B) iOS

C) Windows

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D) None of the above

6. What type of file is represented by the extension .docx?

A) Spreadsheet

B) Audio

C) Presentation

D) Document

7. Which of the following file types is used for audio data?

A) .exe

B) .mp3

C) .zip

D) .html

8. What does the Control Panel icon provide access to?

A) File storage

B) System settings for configuration and management

C) Network connections

D) Installed applications

9. Which file type is used for video data?

A) .txt

B) .mp4

C) .exe

D) .dll

10. What is the purpose of a compressed file?

A) To create a backup

B) To reduce file size for storage or emailing

C) To run applications

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D) To organize files

Answer

1. B
2. C
3. C
4. C
5. C
6. D
7. B
8. B
9. B
10. B