



Computer Applications

Zeeshan Abbas (Visiting Lecturer)

BS- Computer Science (KIU, Pakistan)

MS- Computer Science (SEU, China)

zeeshanabbas5@hotmail.com

University of Baltistan Skardu

Session: Fall 2022

Introduction

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➤ Grading:

- Assignments, Quizzes, Project 20%
- Mid-Term 30%
- Final-Term 50%

➤ Honesty policy:

- Taking someone else's work and representing it as your own is lying, cheating, and stealing. All assignments must be done INDIVIDUALLY. Any material taken from the Web or other sources must be properly **cited**.

➤ Cheating in assignments/Exams:

- Cheating means one student copying from another or one student copying from the Internet etc. BOTH PARTIES are equally responsible and both will get at-least **0 (Zero)** in return.

COMPUTER.....?

Computer

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- An electronic data processing device that reads data performs prescribed operations (mathematical and/or analogical) at a very high speed and displays the results of these operations.

COMPUTER Science?

Computer Science

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➤ Computer Science is the discipline that seeks to build a scientific foundation for such topics as:

- Hardware
- Programming
- Graphics
- Word-processing
- Algorithmic Solutions
- Software
- Networks
- Database
- Security
- Artificial Intelligence

Computer Science Applications

➤ Computer Science has applications in almost all domains such as:

- Banks
- Hospitals
- Service Industry
- Military/ Defense
- Software Development
- Chemo metrics
- Drug Discovery
- Personalize medicine
- Computational Chemistry

Local Job Market

- According to famous Job market website in Pakistan “By Function”.

Browse Jobs in Pakistan

By Industry

By City

By Company

By Function

Software & Web (820)

Operations (173)

Health & Medicine (73)

Sales & BD (708)

Teaching & Education (166)

Engineering (64)

Accounts & Finance (399)

Human Resources (163)

SEO (61)

Customer Service (368)

Telemarketing (160)

Project Management (60)

Marketing (253)

Writing (135)

Quality Assurance (QA) (60)

Creative Design (203)

Administration (107)

[More Functional Areas](#)

Computer Networking (184)

Clerical & Front Office (102)

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[By Function](#)

Information Technol... (1504)

Consultants (165)

Insurance / Takaful (70)

Services (328)

Healthcare/Hospital/... (144)

Telecommunication/... (69)

Education/Training (270)

BPO (117)

Importers/ Distributo... (65)

Real Estate/Property (259)

Banking/Financial Se... (116)

Travel/Tourism/Tran... (65)

Manufacturing (227)

N.G.O./Social Services (98)

Accounting/Taxation (61)

Recruitment/Employ... (201)

Business Development (81)

[More Industries](#)

Call Center (199)

E-Commerce / E- Bus... (76)

Parts of a Computer

- There are two basic parts that make up a computer:

Hardware



Software



Hardware

Hardware is basically anything that you can touch with your fingers.

- CPU (CU & ALU)
- Monitor
- Keyboard & Mouse
- Disk Drive, Zip Drive, CD-ROM, DVD,
- Hard Drive
- Memory (RAM)
- Speakers
- Printer

Hardware (Continued)

- There are three types/categories of hardware
 1. Input Devices
 2. Output Devices
 3. Storage Devices
 4. Memory Devices

Input Devices

- Input basically means getting data into the computer to be processed.

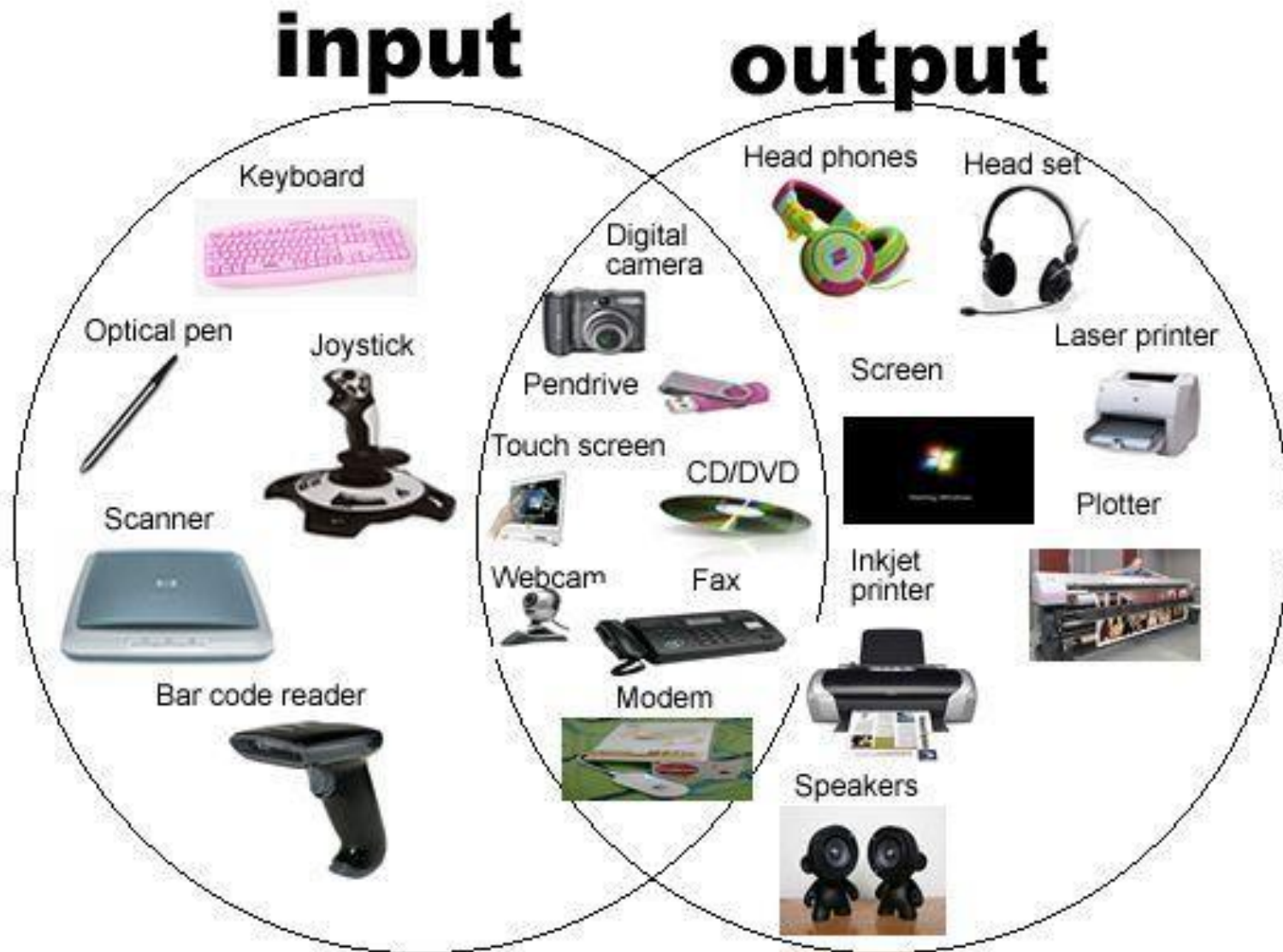


Output Devices

- Output basically means getting data out of the computer.



Input/Output Devices



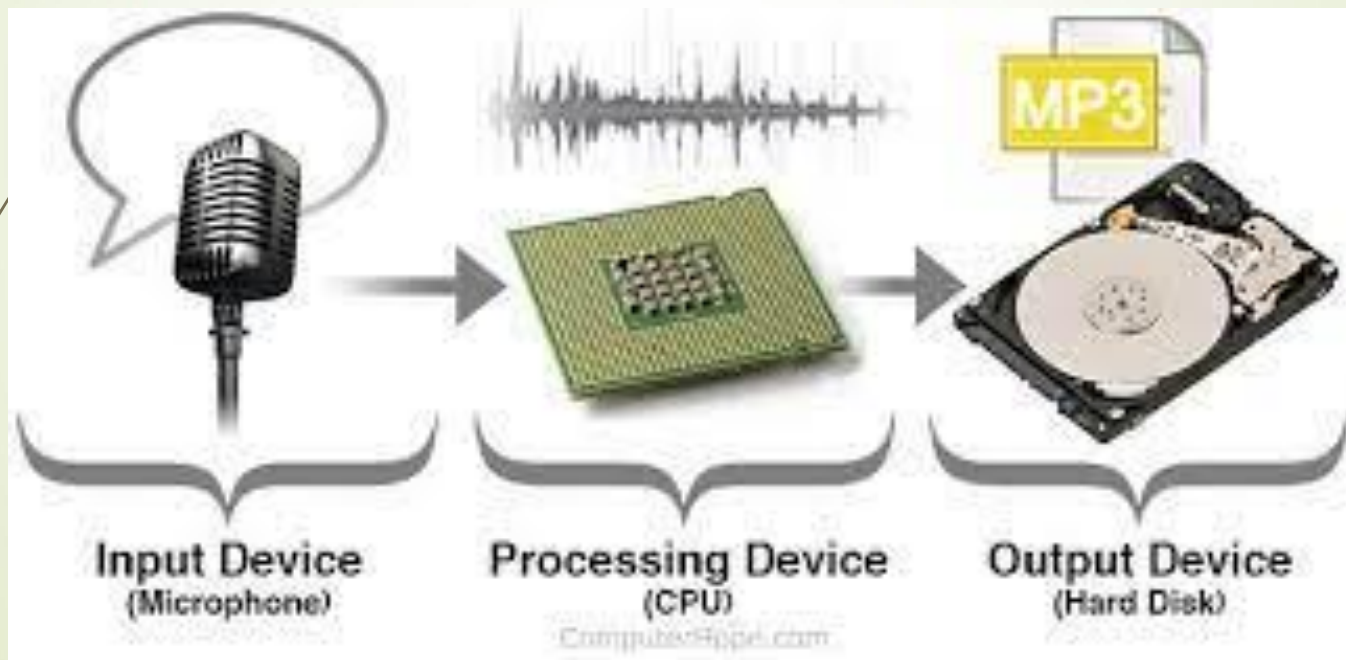
Storage Devices

Storage devices are both input and output devices in one. A storage device is a place to keep data that has been processed so that it can be retrieved at a later time to be used again.



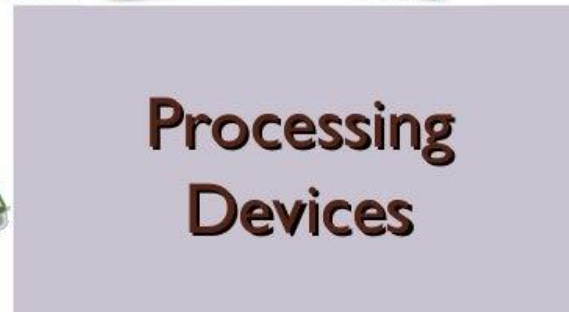
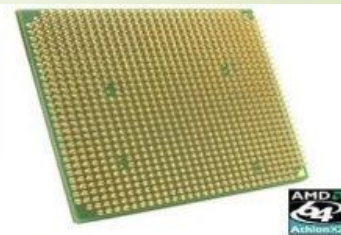
Processing Devices

A processing device is any device inside a computer that interprets and manipulates incoming data



Processing Devices

- Central processing unit (CPU)
- Graphics processing unit (GPU)
- Motherboard.
- Network card.
- Sound card.
- Video card.



Software

Software is the programs and applications that tell the computer what to do and how to do.

- System Software
 - Operating System (OS)
 - Drivers
 - Firmware
- Application Software
 - Word processing software
 - Spreadsheets
 - Communication software

Two Types of Software

Application Software

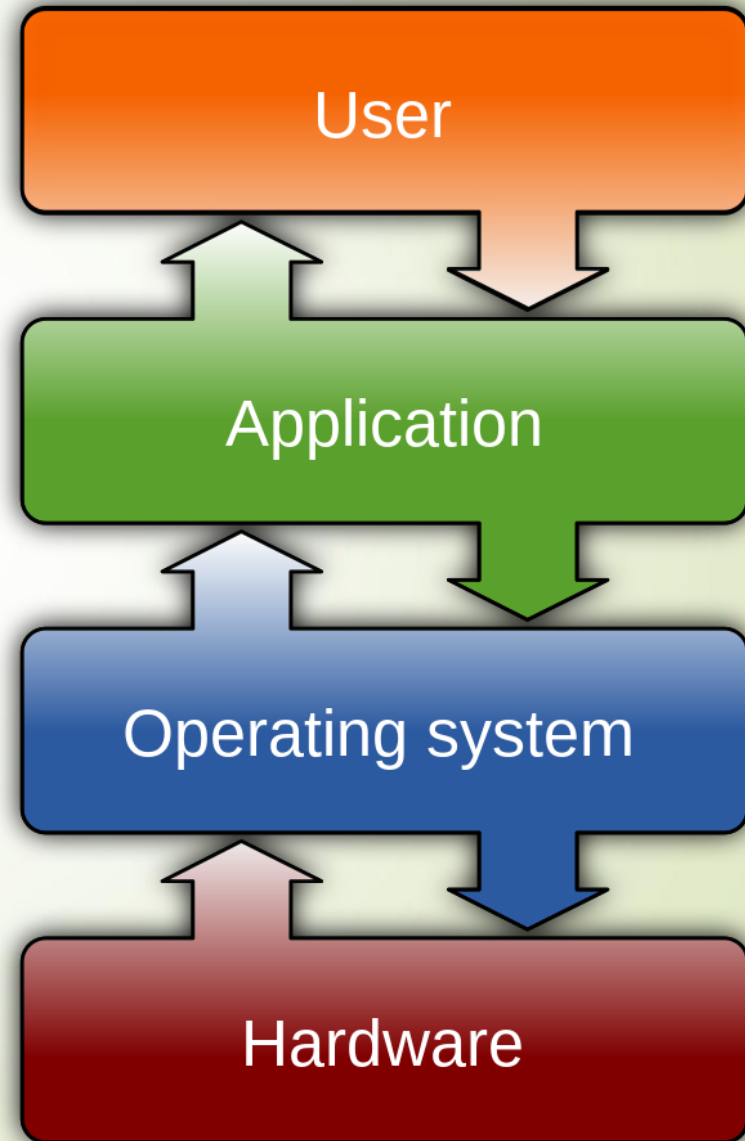
VS

Operating System



Operating System Software

- Directs all the activities and sets all the rules for how the hardware and software will work together.
- An operating system (OS) is system software that manages computer hardware, and software resources, and provides common services for computer programs.





Operating System Software

Examples would be:

Windows 10, 11, Unix, Linux,
Chromium, iOS, Android,

MAC system OS 10,12

Expired:

DOS, Windows XP, vista, NT



Operating Systems: GUI

- GUI stands for Graphical User Interface.
- Uses pictures (icons) to represent files, folders, disk drives, modems, printers, etc.
- GUI was created to make using a computer easier, more interesting, and non-threatening to inexperienced users.
- A mouse allows users to point at something and click to make it work. With the command line you have to have all of the commands to make your programs work.
- Here is an example of a GUI



This PC



Book_Data...



Recycle Bin



0 literature-s...



jobs



Research Grants Nati...



Office



TechnicalW...



PhD



ML resources (2).pdf



dot.NET



UOBS



Qouts.rtf



ins.jpg



The Millionaire ...



Educated Tara Westo...



The Case...



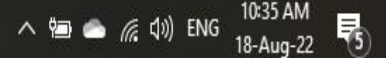
If-You-Wan...



The 5 Second Rule_Trans...



BBhouse.d...



Application Software

An application software (software application, or application, or app for short) is a computer program designed to carry out a specific task other than one relating to the operation of the computer itself, typically to be used by end-users.

Examples:

- A suite of Microsoft products such as MS Office, PowerPoint, MS Word, Excel, and Outlook.
- Internet browsers like Google Chrome, Safari, Firefox, etc.
- Graphics and design software such as Adobe Photoshop, CorelDraw, and AutoCAD.
- Real-time online communication tools like Skype, Hangouts, Google Meet, Zoom, and Whatsapp.
- Multimedia and music streaming software such as MX Player, VLC Media Player, Spotify, Pandora, etc.

Functions of Application Software

Application software programs are designed to execute a large variety of functions. The functions can vary depending on the users' requirements. Here are a couple of examples.

- Document manager
- Emails, text messaging, audio and video conferencing
- Graphics, animations, and video development
- Accounting, payroll, and finance management
- Project management
- Resource (ERP and CRM system) and HR management
- Software for healthcare management
- Business project management
- LMS and eLearning software

Application Software



ment Web App



Word Online



Gmail



Gmail Offline



Google Docs



Mobile Websi



look.com



Google Drive



Box



FollowMania



YouTube



Daum Equatio



ho Wiki



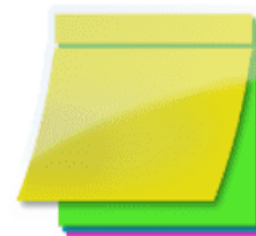
Photo Book



PDF to Word Converter...



SnapPages



Sticky Notes



SAPOMO

Application Software

