



# Govt. Degree College, Rajgir

Bachelor Of Computer Application (BCA)

Part -1 (Paper-2)

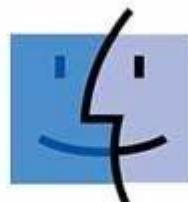
– Hira Kumar

## OPERATING SYSTEM (OS)



Microsoft

Apple



Mac OS

symbian



ubuntu.



## Q. What is Operating System ? (2021)

→ An Operating System (OS) is an interface between the computer user and the computer hardware.

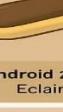
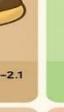
Or

An operating system is a program that acts as an interface between the user and the computer hardware and controls the execution of all kinds of programs.

- It is a type of System Software.
- Every computer system must have at least one operating system to

run other programs.

- A program which controls the execution of all other programs (applications).
  - Acts as an intermediary between the user(s) and the computer.
  - Applications like Browsers, MS Office, Notepad Games, etc., need some environment to run and perform its tasks.
  - Example of Some popular Operating Systems → Windows, Android, MacOS, IOS, Linux, Unix, DOS,.....
- ✓ First OS Run on machine = IBM 701  
✓ Father of OS = Gary Kildall = CP/M OS  
✓ CP/M OS = Control Program For Microcomputers = 1974  
✓ Close Computer in Short time no use = Sleep Mode  
✓ Close Computer in Long time no use = hibernate Mode  
✓ 1<sup>st</sup> Version of Microsoft – Ms- DOS  
✓ 1<sup>st</sup> Version of Windows – Windows 1.0  
✓ Latest Version of Microsoft / Windows – Windows 11  
✓ Client/Server based OS – Windows 2000  
✓ My Computer / Windows exploere feature develop = Windows 95  
✓ OS is a collection of = Software(kernal/driver...) Routines  
✓ Windows 8 = Not having start button  
✓ OS not support networking = Windows 3.1  
✓ OS having small file nam(i.e. till 8 Character) = MS DOS  
✓ OS handles hardware and software interrupts

▪ MS-DOS	
▪ Windows 1.0-2.0	
▪ Windows 95	
▪ Windows 98	
▪ Windows ME (Windows Millennium)	
▪ Windows NT	
▪ Windows 2000	
▪ Windows XP	
▪ Windows VISTA	
▪ Windows 7	
▪ Windows 8	
▪ Windows 8.1	
▪ Windows 10	
▪ Windows 11	



- ✓ MS-DOS - Owner Microsoft – Use PC
- ✓ Android – Owner Google – Use smartphone / tablets
- ✓ IOS – Owner Apple - Use smartphone / tablets
- ✓ MACOS – Owner Apple – Use PC
- ✓ Windows – Owner Microsoft – Use PC
- ✓ Chrome OS – Owner google – Use tablets & netbooks.
- ✓ Linux – Use PC - professionals, Cloud based services & websites, Linux is more secure and less prone to viruses, but not virus-free..
- ✓ Symbian – Owner Nokia – Use Smartphone
- ✓ Ubuntu – Use PC
- ✓ Blackberry – Blackberry OS
- ✓ Samsung - Bada OS
- ✓ Unix – Servers and Workstations
  - ✓ Booting – When computer do start/Re-start, this is called Booting.
  - ✓ Booting Process – Computer ON → BIOS(Stored in ROM) → POST → Boot loader → Operating System loaded into RAM
    - POST – Power On self – Test
    - BIOS – Basic Input-Output System
    - CMOS - Complementary Metal-Oxide-Semiconductor
  - ✓ Booting Type – i) Cold Booting – When PC 1<sup>st</sup> Time Start  
ii) Warm booting – When PC Re-start.

=====HIRA KUMAR=====