

**DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY**

**Subject Name:** Operating Systems **Subject Code: CSH206B-T**

**Tutorial :3**

**Aim: To gain familiarity with introductory concepts of OS**

**Course Outcome : CO2**

**Blooms Taxonomy: BT1,BT2, BT3, BT4**

1. Differentiate between
2. Kernel and Operating System
3. Kernel and Shell
4. Monolithic Kernel and Micro Kernel
5. System Call and System Program
6. Define the Following: -
7. Trap
8. IVT
9. ISR
10. The services and functions provided by an operating system can be divided into two main categories. Briefly describe the two categories and discuss how they differ.
11. What is an Interrupt? Provide some examples where hardware and software interrupt is generated.
12. Explain the following: -
13. Dual Mode Operation
14. Memory Protection
15. I/O Protection
16. What are the five major activities of an operating system in regard to file management, Process Management?
17. Draw the Memory Structure for some processes and operating system with their legal memory addresses. The base and limit registers are loaded with the addresses 1050 and 1000, respectively. Suppose P1 and P2 reference the memory locations 2040 and 3052, respectively. Check if the processes will be allowed to execute.
18. Which of the following instructions should be privileged?
19. Switch from User Mode to Kernel Mode
20. Updating Base and Limit Register
21. Clear Memory Location
22. Read a clock
23. Interrupts are disabled.
24. Executing a loop to enter user data.
25. Load a value in processor register.
26. Send a file to printer to print.