Assignment -1

- 1. Define operating system. Also explain about two different views of operating system.
- 2. Illustrate different types of OS, and briefly explain it.
- 3. What are different functions of operating system? Illustrate it with help of example.
- 4. Explain different types of OS structure with help of labelled diagram.
- 5. Write short notes on:
 - a) System Call
 - b) Shell

Assignment-2

- 6. Define process and program. Also differentiate it.
- 7. Differentiate between process and threads.
- 8. Explain 5-state process model, along with its transition.
- 9. Write short notes on:
 - a) PCB
 - b) User mode and Kernel mode
 - c) Short-term, Long-term, Medium-term scheduler
- 10. Define process scheduling, along with its goals.
- 11. Write an algorithm for the following scheduling methods:
 - a) First Come First Serve (FCFS)
 - b) Shortest Remaining Time First (SRTF)
 - c) Shortest Job First (SJF)
 - d) Round Robin (RR)
 - e) Priority Based Algorithm (Non-Preemptive)
 - f) Priority Based Algorithm (Preemptive)