



Operating System
Subject Code – 2418302
Year – 2nd Year/Sem-3rd (CSE)

Assignment-1

Questions:

1. What is an Operating system ? Explain types of operating system.
2. Differentiate between Batch Operating System and Time Sharing Operating System?
3. Explain functions of operating system.
4. Explain multiprogramming operating system.
5. Explain Real time operating system.
6. Explain Batch Operating System.
7. List out services of Operating system from user point of view.

Assignment-2

Questions:

1. Explain process and process state.
2. Explain about PCB\
3. Define scheduler and types of scheduler.
4. Explain about IPC.
5. Define threads and types of thread.
6. Differentiate between Process and Threads.

Assignment-3

Questions:

1. Explain the CPU scheduling and types of CPU scheduling.
2. Write difference between Preemptive scheduling and Non Preemptive scheduling.
3. Define:
 - a. Arrival Time (AT)
 - b. Completion Time or Exit Time
 - c. Burst time (BT)
 - d. Turnaround time (TAT)
 - e. waiting time (WT)

4. Consider the set of 5 processes whose arrival time and burst time are given below by using SJF.

Processed	Arrival time	BT
P1	0	1
P2	1	4
P3	4	2
P4	0	6
P5	2	3

5. Consider the processes P1, P2, P3, P4 given in the below table, arrives for execution in the same order, with given arrival time and burst time by using FCFS.

Processed	Arrival time	BT
P1	0	8
P2	1	4
P3	2	9
P4	3	5

6. Consider the set of 5 processor whose arrival time and burst time are given below by using RR (Round Robin)

Time slice = 2

Processed	Arrival time	BT
P1	0	5
P2	1	3
P3	2	1
P4	3	2
P5	4	3

7. Consider the set of 5 processor whose arrival time and burst time are given below by using priority scheduling.

Processed	Arrival time	BT	Priority
P1	0	4	2
P2	1	3	3
P3	2	1	4
P4	3	5	5
P5	4	2	5

Assignment-4

Questions:

1. What is Memory Management Unit? Explain functionalities of memory management unit.
2. Explain Memory Management with Dynamic-Partitions and Fixed Partitions.
3. Explain Virtual Memory.
4. Explain Paging and segmentation memory management technique.
5. Explain FIFO, LRU, OPTIMAL.

Assignment-5

Questions:

1. What are file attributes? Explain various file attributes.
2. Explain different file access methods.
3. List various Directory operations and describe each in detail.
4. List disadvantages of single level, Two Level and Acyclic graph directory.
5. Explain logical structure of Disk organization.

