Chandigarh Engineering College, Landran
Department of Electronics and Communication Engineering

Assignment No. 2

Subject and Subject code: Operating System (BTCS-402-18)
Semester: 3rd year/ 6th semester
Date on which assignment given: 19-04-2024   Total Marks:10
Date of submission of assignment 26-04-2024

Course Outcomes

CO1:	Explain basic operating system concepts such as overall architecture, system calls, user mode and kernel mode.
CO2:	Distinguish concepts related to processes, threads, process scheduling, race conditions and critical sections.
CO3:	Analyze and apply CPU scheduling algorithms, deadlock detection and prevention algorithms.
CO4:	Examine and categorize various memory management techniques like caching, paging, segmentation, virtual memory, and thrashing.
CO5:	Design and implement file management system.
CO6:	Appraise high-level operating systems concepts such as file systems, disk-scheduling algorithms and various file systems.

Bloom's Taxonomy Levels

L1- Remembering,   L2- Understanding,   L3- Applying,   L4-Analyzing,   L5- Evaluating,   L6- Creating

Assignment related to COs	Marks Distribution	Relevance to CO No.	Blooms Level
Q1. What are the various allocation methods in File Management?	2	CO5	L1
Q2. Explain about the disk scheduling algorithms.	2	CO6	L5
Q3. Justify the difference between Internal and External Fragmentation.	2	CO4	L4
Q4. Describe free space management in operating system.	2	CO5	L2
Q5. Demonstrate any two Page replacement algorithms with suitable examples.	2	CO4	L3