LAB Assignment 10

Operating Systems (UCS303)

Instructions: *The instructor is required to discuss the concept of memory management with the students. Students have to implement following program.*

Write a program using C/C++/Java to simulate the first fit, best fit and worst fit memory allocation strategy. Assume memory chunk and initial requirement for memory block from your side.

Example Program Flow
1. Initialize the program with an initial memory chunk of a specified size.
2. Display the menu for the user to choose an allocation strategy (First Fit, Best Fit, Worst Fit) or to exit.
3. Prompt the user to request a memory block allocation, specifying the size.
4. Allocate memory based on the chosen strategy.
5. Display the updated state of the memory chunk.
6. Repeat steps 3 to 5 until the user chooses to exit.