

UNIT 1

Assignment 1-B



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Note: Attempt any two questions [10 Marks Each]

- Q1.** Investigate the impact of including unnecessary header files in a C program. Write a program that includes unnecessary header files, and analyze the resulting compilation time.
 - Q2.** Develop a C program that simulates a simple calculator with a menu-driven interface using a switch statement. The program should allow the user to choose between addition, subtraction, multiplication, and division operations. Implement error handling for invalid input.
 - Q3.** Compare the performance of different loop constructs (for loop, while loop, and do-while loop) in C programming by writing a program that performs a time-intensive operation using each loop construct. Measure and analyze the execution time for each loop.
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