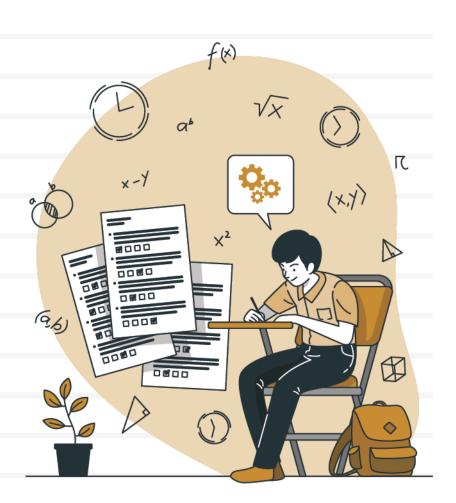


UNIT 1

Assignment 1-B





Assignment 1-B

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.