

CCS1063 | CSE1062 Fundamentals of Programming

- Lab Sheet 03 -

1. Write a C program using a while loop to display all the odd numbers between 1 and 20.
2. Write a C program using a for loop to calculate the sum of all numbers between 1 and 100 (inclusive).
3. Write a C program using an if-else statement to check whether a given number is positive, negative, or zero. Take the input from the user.
4. Write a C program using a do-while loop to repeatedly ask the user to enter a number until they enter a negative number. Display the sum of all the positive numbers entered.
5. Write a C program using a switch statement to display the name of a month based on its corresponding number. Take the input from the user (1 for January, 2 for February, and so on).
6. Write a C program using nested loops (for or while) to display the following pattern:





7. Write a C program using an if-else statement to check whether a given year is a leap year or not. Take the input from the user. (A leap year is divisible by 4, but not divisible by 100, unless it is divisible by 400).
8. Write a C program using a for loop to calculate the factorial of a given number. Take the input from the user.
9. Write a C program using a while loop to find the largest element in an array of integers. The array should be provided by the user as input.
10. Write a C program using a do-while loop to repeatedly ask the user to guess a number between 1 and 10. If the guessed number matches a predefined number, display "Congratulations!" and exit the loop. Otherwise, display "Try again!" and continue the loop.
11. Write a C program using a switch statement to perform basic calculator operations. Take two numbers and an operator (+, -, *, /) as input from the user and display the result.
12. Write a C program using a for loop to print the Fibonacci series up to a given number. Take the input from the user.
13. Write a C program using an if-else statement to check whether a given character is a vowel or a consonant. Take the input from the user.
14. Write a C program using a do-while loop to display the multiplication table of a given number. Take the input from the user.
15. Write a C program using a while loop to reverse a given number. Take the input from the user and display the reversed number.