

**MCA I SEM (2023-24)**  
**List of C Programs**  
**C Programming Lab –KCA 151**

### **Experiment-1**

1. Write a C program to print "Hello, World!" ten times using a function without arguments and return value. The function should contain a loop to print the message..
2. Write a C Program to Print Your Own Name.
3. Write a C Program to Print an Integer Entered By the User.

### **Experiment-2**

4. Write a C Program to Add Two Numbers.
5. Write a C Program to multiply two Floating-Point Numbers.
6. Write a C Program to Print the ASCII Value of a Character.
7. Write a C Program to Find the Size of int, float, double, and char.
8. Write a C Program to Add Two Complex Numbers .

### **Experiment-3**

9. Write a C Program to Find Simple Interest.
10. Write a C Program to Find Compound Interest.
11. Write a C Program to swap the values of two variables by using Third variable.
12. Write a C Program to swap the values of two variables without using third variables.

### **Experiment-4**

13. Write a C Program to Check Whether a Number is Positive, Negative, or Zero.
14. Write a C Program to Check Whether Number is Even or Odd.
15. Write a C Program to Check Whether a Character is Vowel or Consonant.
16. Input a character and convert it into upper case if it is in lower case and vice versa.

### **Experiment-5**

17. Write a C Program to Find Largest Number among Three Numbers.
18. Write a C Program to Check Leap Year.
19. Write a C Program to find the roots of quadratic equations.

## Experiment-6

20. Write a C to print the day of the week depending on the values of an integer variable 'day'. For example 1 for Sunday using nested if statement.
21. Write a C Program to print the day of the week depending on the values of an integer variable 'day'. For example 1 for Sunday using switches case statement.

## Experiment-7

22. Write a menu driven C program to create calculator for all arithmetic Operations by using switch case.

## Experiment-8

23. Write a C Program to find the factorial of number using while, loop.
24. Write a C program to find the sum of digits of a number using do-while loop.
25. Write a C Program to find that given number is palindrome.
26. Write a C Program to Check Whether a Number is Prime or Not.

## Experiment-9

27. Write a program to find the sum of first n natural numbers using for loops
28. Write a C Program to find that given number is Armstrong number or not.
29. Write a C Program to Generate Multiplication Table.

## Experiment-10

30. Write a C Program to Print Simple Pyramid Pattern

```
      *
     * * *
    * * * * *
   * * * * * * *
  * * * * * * * *
 * * * * * * * * *
```

31. Write a C Program to Print given Triangle

```
      1
     1 1
    1 2 1
   1 3 3 1
  1 4 6 4 1
 1 5 10 10 5 1
```

32. Write a C Program to Print Inverted Pyramid.

```
* * * * *
 * * * * *
  * * * * 
   * * *  
    * * * 
     *
```

### Experiment-11

33. Write a C program to input n nos in an array and find the sum of all the nos.
34. Write a C program to convert a string in lower case to upper case.
35. Write a program to find the length of the string and count the vowels in the given string.

### Experiment-12

36. Write a C program to find sum of two matrices.
37. Write a C program to transpose the matrix.
38. Write a C program to find the multiplication of two matrices.
39. Write a C program to sum of each row and each column of an m x n Matrix.

### Experiment-13

40. Write a program Input two strings and concatenate two string using library functions.
41. Write a C program to concatenate two strings without using library functions.

### Experiment-14

42. Write a C program input the details of the student and display information using structures.
43. Write a C program to add two distances entered by the user. Measurement of distance should be in inches and feet using structure.

### Experiment-15

44. Write a C program to read and print details of a person using union.

## **Experiment-16**

- 45. Write a program to find the sum of two numbers by user defined function call by value.
- 46. Write a C program to find and display the factorial of a number entered by the user using a function with arguments and a return value.
- 47. Write a C program to find the factorial of a number by using recursive functions.

## **Experiment-17**

- 48. Write a C Program to find that given number is palindrome using function.
- 49. Create a program to calculate and return the sum of the first 100 natural numbers using a function without arguments but with a return value.
- 50. Develop a program that takes two integers as input from the user and displays their sum using a function with arguments but without a return value.

## **Experiment-18**

- 51. Write a C Program to store the information of the students showing read and write operations using file handling operation in C.
- 52. Write a program to display Program to Graphical operation in C language.

## **Experiment-19**

- 53. Write a C program to draw basic shapes like Square, rectangle, triangle and circle.