Lab Practise

1. Research and provide three real-world applications where C programming is extensively used, such as in embedded systems, operating systems, or game development.
2. Install a C compiler on your system and configure the IDE. Write your first program to print "Hello, World!" and run it.=ok
3. Write a C program that includes variables, constants, and comments. Declare and use different data types (int, char, float) and display their values.=ok
4. Write a C program that accepts two integers from the user and performs arithmetic, relational, and logical operations on them. Display the results.=on process
5. Write a C program to check if a number is even or odd using an if-else statement. Extend the program using a switch statement to display the month name based on the user’s input (1 for January, 2 for February, etc.).=ok
6. Write a C program to print numbers from 1 to 10 using all three types of loops (while, for, do-while)=ok
7. Write a C program that uses the break statement to stop printing numbers when it reaches 5. Modify the program to skip printing the number 3 using the continue statement.
8. Write a C program that calculates the factorial of a number using a function. Include function declaration, definition, and call.=ok
9. Write a C program that stores 5 integers in a one-dimensional array and prints them. Extend this to handle a two-dimensional array (3x3 matrix) and calculate the sum of all elements
10. Write a C program to demonstrate pointer usage. Use a pointer to modify the value of a variable and print the result
11. Write a C program that takes two strings from the user and concatenates them using strcat(). Display the concatenated string and its length using strlen.=ok
12. Write a C program that defines a structure to store a student's details (name, roll number, and marks). Use an array of structures to store details of 3students and print them.=ok
13. Write a C program to create a file, write a string into it, close the file, the n open the file again to read and display its contents.