**C Language Questions**

1. What is the size of a float in C?

**Ans=4byte**

1. Which operator is used to compare equality in C?

**Ans=b**

1. = B) == C) != D) :=
2. What will be the output of: printf("%d", 6 % 4);

**Ans=2**

1. What is the default value of an uninitialized local variable in C?

**Ans=garbage value**

1. Which keyword is used to define a constant in C?

**Ans=const**

1. Write one-line syntax of a for loop in C.

**Ans=for(initialization;condition;incre/decre)**

1. Which of the following is a logical AND operator?

**Ans=b**  
A) & B) && C) | D) ||

1. What will this code print?

**Ans=print A**

int x = 10;

if (x > 5) printf("A"); else printf("B");

1. Which loop is guaranteed to execute at least once?

**Ans= do while loop**

1. What does the break statement do inside a loop?

**Ans=stop the loop**

1. What is the return type of main() function in standard C?

**Ans=null value return**

1. Can a function return more than one value? (Yes/No)

**Ans=yes**

1. Write the syntax to declare an array of 5 integers.

**Ans=data\_type array\_name[5];**

1. What is the index of the last element in int arr[5];?

**Ans=index is 4**

1. Can we use a loop inside a function? (Yes/No)

**Ans=yes**

**Instructions:** Write complete C programs for the following tasks.

1. Write a program to input two numbers and print their sum, difference, multiplication, and division.
2. Write a program to check whether a number is even or odd using if-else.
3. Write a program to find the maximum of three numbers using nested if-else.
4. Write a program that prints numbers from 1 to 50 using a for loop.
5. Write a program to calculate the factorial of a number using a while loop.
6. Write a program to input 5 numbers into an array and print the sum of all numbers.
7. Write a program to reverse and print the elements of a 5-element array.
8. Write a function int square(int num) that returns the square of a number. Call this function from main().
9. Write a program to input a number and check whether it is positive, negative, or zero using if-else.
10. Write a program using switch to perform a basic calculator (addition, subtraction, multiplication, division) based on user choice.