

C Language Questions

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

Ans: 8 byte

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

A) = B) == C) != D) :=

Ans: A

3. What will be the output of: `printf("%d", 6 % 4);`

Ans: 1

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

Ans: int

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

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

Ans: `for(initialization;condition;increce/decrece)`

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

A) & B) && C) | D) ||

ANS: B

8. What will this code print?

```
int x = 10;
```

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

Ans: `#include<stdio.h>`

`#include<conio.h>`

```
void main()
```

```
{
```

```
int num;

printf("Enter number: ");

scanf("%d",&num);

if(num>5)
{
    printf("A");
}
else
{
    printf("B");
}

getch();
}
```

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

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

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

Ans: int main()
Void main()

12. Can a function return more than one value? (Yes/No)
13. Write the syntax to declare an array of 5 integers.
14. What is the index of the last element in `int arr[5];`?
15. Can we use a loop inside a function? (Yes/No)

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.