

Coding Questions Basic

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1. Basic Programming Questions

1. Write a program to check if a number is **even or odd**.
2. Write a program to **swap two numbers** without using a third variable.
3. Write a program to **find the largest of three numbers**.
4. Write a program to **reverse a number** (e.g., input: 1234, output: 4321).
5. Write a program to **check if a number is prime**.
6. Write a program to **find the factorial of a number** using recursion.
7. Write a program to **generate the Fibonacci series** up to n terms.
8. Write a program to **check if a string is a palindrome** (e.g., "madam" → Yes, "hello" → No).
9. Write a program to **find the sum of digits of a number**.
10. Write a program to **count the number of vowels and consonants** in a given string.

2. Array & String Questions

11. Write a program to **find the largest element in an array**.
12. Write a program to **sort an array using Bubble Sort**.
13. Write a program to **find the second largest number in an array**.
14. Write a program to **remove duplicates from an array**.
15. Write a program to **reverse a string without using the built-in function**.

3. Pattern Printing Questions

16. Print the following pattern:

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

17. Print the following pattern:

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

18. Print the following pattern:

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

4. Logical & Miscellaneous Questions

19. Write a program to **find the GCD (Greatest Common Divisor) of two numbers**.
20. Write a program to **find whether a year is a leap year or not**.