

# C++ Programming Concept Based Questions

*Aazan Noor Khuwaja*

## Switch Based Questions

1. Write a program to display the day of the week based on a number (1-7).
2. Create a program that converts numbers to Roman numerals (1-10).
3. Write a program to display the month name based on a number (1-12).
4. Create a program to calculate the area of different shapes (circle, square, triangle).
5. Write a program to determine a student's grade based on marks.
6. Create a program that simulates a simple calculator using switch case.
7. Write a program to convert between different units (e.g., meters to feet).
8. Create a program to determine the type of triangle based on angles.
9. Write a program that displays the appropriate action based on a user command.
10. Create a program that simulates a vending machine.
11. Write a program to display the corresponding food item based on number input.
12. Create a program that tells you if you need to carry an umbrella based on weather condition codes.
13. Write a program to categorize a number (positive, negative, zero) using switch case.
14. Create a program to find the maximum of three numbers using switch case.
15. Write a program that suggests a color based on user mood input.
16. Create a program that takes a number and outputs the corresponding ASCII character.
17. Write a program to categorize a person based on their height.
18. Create a program that suggests an activity based on the time of day.
19. Write a program to display the suitable dress code based on weather conditions.
20. Create a program that determines if a number is odd or even using switch case.
21. Write a program that outputs the result of a basic mathematical operation based on user choice.
22. Create a program that checks whether the user input is a valid command.
23. Write a program that generates a message based on user input regarding preferences.
24. Create a program to convert temperature from Fahrenheit to Celsius or vice versa.
25. Write a program to categorize types of foods based on their type (e.g., fruit, vegetable).
26. Create a program that suggests a sport based on the user's preference.

**27. Write a program that determines whether a number is a prime number or not using switch case.**

**28. Create a program that decides on a drink based on temperature (hot or cold).**

**29. Write a program that provides feedback based on a user rating (1-5).**

**30. Create a program that gives the status of a game based on a player's score number appears in an array.**