## **Programming problems using Conditional Operators**

- 1. Write a C program to find maximum between two numbers.
- 2. Write a C program to find maximum between three numbers.
- 3. Write a C program to check whether a number is negative, positive or zero.
- 4. Write a C program to check whether a number is divisible by 5 and 11 or not.
- 5. Write a C program to check whether a number is even or odd.
- 6. Write a C program to check whether a year is leap year or not.
- 7. Write a C program to check whether a character is alphabet or not.
- 8. Write a C program to input any alphabet and check whether it is vowel or consonant.
- 9. Write a C program to input any character and check whether it is alphabet, digit or special character.
- 10. Write a C program to check whether a character is uppercase or lowercase alphabet.
- 11. Write a C program to input week number and print week day.
- 12. Write a C program to input month number and print number of days in that month.
- 13. Write a C program to count total number of notes in given amount.
- 14. Write a C program to input angles of a triangle and check whether triangle is valid or not.

- 15. Write a C program to input all sides of a triangle and check whether triangle is valid or not.
- 16. Write a C program to check whether the triangle is equilateral, isosceles or scalene triangle.
- 17. Write a C program to find all roots of a quadratic equation.
- 18. Write a C program to calculate profit or loss.
- 19. Write a C program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade according to following:

20. Write a C program to input basic salary of an employee and calculate its Gross salary according to following:

Basic Salary 
$$\leq 20000$$
: HRA = 25%, DA = 90%

Basic Salary > 20000: HRA = 30%, DA = 95%

21. Write a C program to input electricity unit charges and calculate total electricity bill according to the given condition:

For first 50 units Rs. 0.50/unit

For next 100 units Rs. 0.75/unit

For next 100 units Rs. 1.20/unit

For unit above 250 Rs. 1.50/unit

An additional surcharge of 20% is added to the bill

- 22. Write a C program to find maximum between two numbers using conditional operator.
- 23. Write a C program to find maximum between three numbers using conditional operator.
- 24. Write a C program to check whether a number is even or odd using conditional operator.
- 25. Write a C program to check whether year is leap year or not using conditional operator.
- 26. Write a C program to check whether character is an alphabet or not using conditional operator.
- 27. Write a C program to perform input/output of all basic data types.
- 28. Write a C program to enter two numbers and find their sum.

- 29. Write a C program to enter two numbers and perform all arithmetic operations.
- 30. Write a C program to enter length and breadth of a rectangle and find its perimeter.
- 31. Write a C program to enter length and breadth of a rectangle and find its area.
- 32. Write a C program to enter radius of a circle and find its diameter, circumference and area.
- 33. Write a C program to enter length in centimeter and convert it into meter and kilometer.
- 34. Write a C program to enter temperature in Celsius and convert it into Fahrenheit.
- 35. Write a C program to enter temperature in Fahrenheit and convert to Celsius
- 36. Write a C program to convert days into years, weeks and days.
- 37. Write a C program to find power of any number x ^ y.
- 38. Write a C program to enter any number and calculate its square root.
- 39. Write a C program to enter two angles of a triangle and find the third angle.
- 40. Write a C program to enter base and height of a triangle and find its area.
- 41. Write a C program to calculate area of an equilateral triangle.
- 42. Write a C program to enter marks of five subjects and calculate total, average and percentage.

43. Write a C program to enter P, T, R and calculate Simple Interest.
44. Write a C program to enter P, T, R and calculate Compound Interest.