

## List of if...else programming exercises

1. Write a Java Program to find maximum between two numbers.
2. Write a Java program to find maximum between three numbers.
3. Write a Java program to check whether a number is negative, positive or zero.
4. Write a Java program to check whether a number is divisible by 5 and 11 or not.
5. Write a Java program to check whether a number is even or odd.
6. Write a Java program to check whether a year is leap year or not.
7. Write a Java program to check whether a character is alphabet or not.
8. Write a Java program to input any alphabet and check whether it is vowel or consonant.
9. Write a Java program to input any character and check whether it is alphabet, digit or special character.
10. Write a Java program to check whether a character is uppercase or lowercase alphabet.
11. Write a Java program to input week number and print week day.
12. Write a Java program to input month number and print number of days in that month.
13. Write a Java program to count total number of notes in given amount.
14. Write a Java program to input angles of a triangle and check whether triangle is valid or not.
15. Write a Java program to input all sides of a triangle and check whether triangle is valid or not.
16. Write a Java program to check whether the triangle is equilateral, isosceles or scalene triangle.
17. Write a Java program to find all roots of a quadratic equation.
18. Write a Java program to calculate profit or loss.
19. Write a Java program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade according to following:  
Percentage  $\geq 90\%$  : Grade A  
Percentage  $\geq 80\%$  : Grade B  
Percentage  $\geq 70\%$  : Grade C  
Percentage  $\geq 60\%$  : Grade D  
Percentage  $\geq 40\%$  : Grade E  
Percentage  $< 40\%$  : Grade F

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

Basic Salary  $\leq$  10000 : HRA = 20%, DA = 80%

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

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

21. Write a Java 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