

## **Assignment 2: If, if...else, if...elseif...else, switch...case**

Q1. Write a Java program to check whether a given number is positive, negative or zero.

Q2. Write a Java program to check whether a number is odd or even.

Q3. Write a Java program to find the smallest of five numbers.

Q4. Write a Java program to check whether a given year is a leap year or not.

Q5. Write a Java program to accept a student's marks and print "Pass" if marks  $\geq 40$  otherwise print "Fail".

Q6. Write a Java program to print the day of the week using a switch statement (1 for Monday ... 7 for Sunday).

Q7. Write a Java program to create a calculator using a switch statement to perform addition, subtraction, multiplication, or division.

Q8. Write a Java program to display remarks based on grade using a switch statement.  
(A → Excellent, B → Good, C → Average, D → Pass, F → Fail)

Q9. Write a Java program to print the month name and number of days using switch statement (1 for January ... 12 for December).

Q10. Write a Java program to check whether an alphabet is a vowel or a consonant using switch.

Q11. Write a Java program to calculate the electricity bill based on units consumed:

- Up to 100 units → ₹5/unit
- 101–200 units → ₹7/unit
- Above 200 units → ₹10/unit

Q12. Write a Java program to check if a triangle is **equilateral**, **isosceles**, or **scalene** based on its three sides.

Q13. Write a Java program to find the absolute value of a given number.

Q14. Write a Java program to check whether a person is eligible to vote or not based on age:

Q15. Write a Java program to convert temperatures:

- 1 → Celsius to Fahrenheit
- 2 → Fahrenheit to Celsius
- 3 → Celsius to Kelvin

Q16. Write a Java program to convert Indian Rupees to  
1 → US Dollar, 2 → Euro, 3 → Japanese Yen.

Q17. Write a Java program to calculate the area of:

- 1 → Circle
- 2 → Rectangle
- 3 → Triangle

Based on shape

Q18. Write a Java program that takes an integer as input and prints "**Multiple of 5**" only if the number is exactly divisible by 5.

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Q20. Write a Java program to assign an exam hall based on roll number:

- Roll number ending with **0–3** → **Hall A**
- Ending with **4–6** → **Hall B**
- Ending with **7–9** → **Hall C.**