

Java Practice Questions — Conditional Statements

Question 1: Positive Number Check

Write a Java program that takes an integer input from the user and checks whether the number is positive.

Output format:

- If number is positive → print "Positive number"

Example:

Input: 5

Output: Positive number

Question 2: Even or Odd

Write a Java program to check whether a given integer is even or odd.

Output format:

- Even → "Even number"
- Odd → "Odd number"

Example:

Input: 7

Output: Odd number

Question 3: Voting Eligibility

Write a Java program that takes age as input and checks whether the person is eligible to vote.

Condition:

- Age ≥ 18 → Eligible

- Otherwise → Not eligible

Example:

Input: 20

Output: Eligible to vote

Question 4: Greater of Two Numbers

Write a Java program that takes two integers as input and prints which one is greater.

Example:

Input: 10 20

Output: 20 is greater

Question 5: Temperature Category

Write a Java program to classify temperature into categories:

Conditions:

- $\text{temperature} < 10 \rightarrow \text{"Very Cold"}$
- $\text{temperature} \geq 10 \text{ and } < 25 \rightarrow \text{"Moderate"}$
- $\text{temperature} \geq 25 \rightarrow \text{"Hot"}$

Example:

Input: 30

Output: Hot

Question 6: Student Grade Calculator

Write a Java program that takes marks (0–100) as input and prints grade using if-else-if ladder.

Grading criteria:

- $\geq 90 \rightarrow \text{Grade A}$
- $\geq 75 \rightarrow \text{Grade B}$
- $\geq 60 \rightarrow \text{Grade C}$
- $\geq 40 \rightarrow \text{Grade D}$

- < 40 → Fail

Example:

Input: 82

Output: Grade B

Question 7: Largest of Three Numbers

Write a Java program to find the largest among three numbers using if-else-if ladder.

Example:

Input: 10 25 15

Output: Largest number is 25

Question 8: Number Sign Check

Write a Java program to check whether a number is:

- Positive
- Negative
- Zero

Example:

Input: -5

Output: Negative number

Question 9: Day of Week (switch)

Write a Java program that takes a number (1–7) and prints the corresponding day using switch.

Mapping:

- 1 → Monday
- 2 → Tuesday
- 3 → Wednesday
- 4 → Thursday
- 5 → Friday
- 6 → Saturday
- 7 → Sunday

Example:

Input: 3

Output: Wednesday

Question 10: Simple Calculator (switch)

Write a Java program that takes:

- two numbers
- one operator (+, -, *, /)

and performs the operation using switch.

Example:

Input:

10

+

5

Output:

Result = 15

Bonus Challenge Question (Optional)

Write a program that checks whether a year is a leap year.

Condition:

A year is leap year if:

- divisible by 400
- OR
- divisible by 4 but not by 100

Example:

Input: 2024

Output: Leap year
