

Problem 1: Check Even or Odd

Write a Java program to check if a number is even or odd using an `if` condition.

```
java
Copy code
int number = 15;
if (number % 2 == 0) {
    System.out.println("The number is even.");
} else {
    System.out.println("The number is odd.");
}
```

Problem 2: Determine Voting Eligibility

Write a Java program to determine if a person is eligible to vote based on age.

```
java
Copy code
int age = 17;
if (age >= 18) {
    System.out.println("Eligible to vote.");
} else {
    System.out.println("Not eligible to vote.");
}
```

Problem 3: Find Largest of Two Numbers

Write a Java program that checks which number is larger using `if-else`.

```
java
Copy code
int num1 = 25, num2 = 40;
if (num1 > num2) {
    System.out.println(num1 + " is larger.");
} else {
    System.out.println(num2 + " is larger.");
}
```

Problem 4: Grade Evaluation

Write a Java program that assigns a grade based on the score using nested `if` statements.

```
java
Copy code
int score = 85;
if (score >= 90) {
    System.out.println("Grade: A");
} else if (score >= 80) {
    System.out.println("Grade: B");
} else if (score >= 70) {
    System.out.println("Grade: C");
}
```

```
} else {  
    System.out.println("Grade: D");  
}
```

Problem 5: Positive, Negative, or Zero

Write a Java program to check if a number is positive, negative, or zero using if-else.

```
java  
Copy code  
int number = 0;  
if (number > 0) {  
    System.out.println("The number is positive.");  
} else if (number < 0) {  
    System.out.println("The number is negative.");  
} else {  
    System.out.println("The number is zero.");  
}
```