Lab 23

Self Practice Solution: Java Conditional Statements

**Task: Explain different Java Conditional Statements**

**If Statement:**

1: Checking if a Number is Positive, Negative, or Zero

public class NumberClassification {

public static void main(String[] args) {

int number = 5;

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.");

}

}

}

```

2: Checking if a Number is Even or Odd

public class EvenOddChecker {

public static void main(String[] args) {

int number = 8;

if (number % 2 == 0) {

System.out.println("The number is even.");

} else {

System.out.println("The number is odd.");

}

}

}

3: Determining Eligibility for Voting

public class VotingEligibility {

public static void main(String[] args) {

int age = 20;

if (age >= 18) {

System.out.println("You are eligible to vote.");

} else {

System.out.println("You are not eligible to vote yet.");

}

}

}

**If-Else If-Else Statement:**

public class GradingSystem {

public static void main(String[] args) {

int score = 85;

if (score >= 90) {

System.out.println("A");

} else if (score >= 80) {

System.out.println("B");

} else if (score >= 70) {

System.out.println("C");

} else if (score >= 60) {

System.out.println("D");

} else {

System.out.println("F");

}

}

}

**Time of Day Greeting**

In this example, we'll display a greeting based on the time of day.

public class TimeOfDayGreeting {

public static void main(String[] args) {

int hour = 15;

if (hour < 12) {

System.out.println("Good morning!");

} else if (hour < 18) {

System.out.println("Good afternoon!");

} else {

System.out.println("Good evening!");

}

}

}

**Number Classification**

In this example, we'll classify a number as positive, negative, or zero.

public class NumberClassification {

public static void main(String[] args) {

int number = -5;

if (number > 0) {

System.out.println("Positive number");

} else if (number < 0) {

System.out.println("Negative number");

} else {

System.out.println("Zero");

}

}

}