

Assignment Answer : Conditional Statement (if statement)

1. Check Voting Eligibility

Description:

A person can vote only if their age is **18 or more**. Write a program that checks whether a user is old enough to vote.

Sample Input:

Enter age: 16

Sample Output:

You are not eligible to vote.

```
import java.util.Scanner;

class VotingEligibility {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter age: ");
        int age = sc.nextInt();

        if (age >= 18) {
            System.out.println("You are eligible to vote.");
        }
    }
}
```

2. Check if Temperature is Hot

Description:

If the temperature is above **30°C**, print **"It is hot outside"**. Otherwise, do nothing.

Sample Input:

Enter temperature: 35

Sample Output:

It is hot outside.

```
import java.util.Scanner;

class TemperatureCheck {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter temperature: ");
        int temp = sc.nextInt();

        if (temp > 30) {
            System.out.println("It is hot outside.");
        }
    }
}
```

3. Check if Number is Positive

Description:

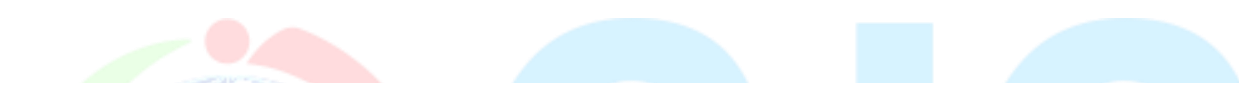
Write a program that checks only if a number is positive. If yes, display a message.

Sample Input:

Enter number: 12

Sample Output:

The number is positive.



```
import java.util.Scanner;

class PositiveNumber {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter number: ");
        int num = sc.nextInt();

        if (num > 0) {
            System.out.println("The number is positive.");
        }
    }
}
```

4. Check if Student Passed the Test

Description:

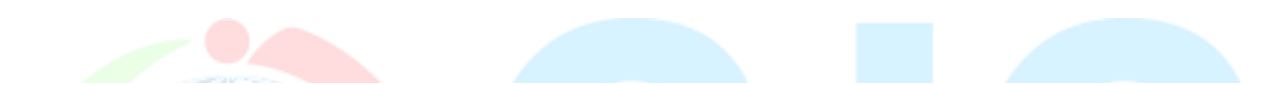
A student passes if their marks are **40 or more**. Print a message only if they passed.

Sample Input:

Enter marks: 75

Sample Output:

You passed the test!



```
import java.util.Scanner;

class StudentPass {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter marks: ");
        int marks = sc.nextInt();

        if (marks >= 40) {
            System.out.println("You passed the test!");
        }
    }
}
```

5. Check Free Delivery Eligibility

Description:

If a customer purchases more than ₹500, they get free delivery.

Sample Input:

Enter total bill: 650

Sample Output:

You get free delivery!

```
import java.util.Scanner;

class FreeDelivery {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter total bill: ");
        int bill = sc.nextInt();

        if (bill > 500) {
            System.out.println("You get free delivery!");
        }
    }
}
```

6. Check if Speed Limit is Exceeded

Description:

If a car's speed is more than **80 km/h**, show a warning.

Sample Input:

Enter speed: 95

Sample Output:

Warning! You are overspeeding.

```
import java.util.Scanner;

class SpeedLimit {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter speed: ");
        int speed = sc.nextInt();

        if (speed > 80) {
            System.out.println("Warning! You are overspeeding.");
        }
    }
}
```

7. Check if Water Level is Low

Description:

If the water level in a tank is below **20%**, display "**Refill the tank**".

Sample Input:

Enter water level: 15

Sample Output:

Refill the tank.

```
import java.util.Scanner;

class WaterLevel {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter water level: ");
        int level = sc.nextInt();

        if (level < 20) {
            System.out.println("Refill the tank.");
        }
    }
}
```

8. Check if Battery Needs Charging

Description:

If the mobile battery percentage is below **10%**, show **"Battery low"**.

Sample Input:

Battery: 8%

Sample Output:

Battery low.

```
import java.util.Scanner;

class BatteryCheck {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter battery percentage: ");
        int battery = sc.nextInt();

        if (battery < 10) {
            System.out.println("Battery low.");
        }
    }
}
```