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Assignment:
Conditional Statement (if-else statement)

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1. Check Even or Odd

Description:
Write a program that checks if a number is even. If not, it is odd.

Sample Input:
Enter number: 9

Sample Output:
Odd number

```
import java.util.Scanner;

class EvenOdd {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        System.out.print("Enter number: ");
        int num = sc.nextInt();

        if (num % 2 == 0) {
            System.out.println("Even number");
        } else {
            System.out.println("Odd number");
        }
    }
}
```

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2. Check Adult or Minor

Description:
If age is **18 or more → Adult**, else **Minor**.

Sample Input:
Enter age: 14

Sample Output:
You are a minor.

```
import java.util.Scanner;

class AdultMinor {
    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 an adult.");
        } else {
            System.out.println("You are a minor.");
        }
    }
}
```

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3. Compare Two Numbers

Description:
Write a program to check which number is greater.

Sample Input:
Enter a: 20
Enter b: 30

Sample Output:
30 is greater.

```
import java.util.Scanner;

class CompareNumbers {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        System.out.print("Enter a: ");
        int a = sc.nextInt();

        System.out.print("Enter b: ");
        int b = sc.nextInt();

        if (a > b) {
            System.out.println(a + " is greater.");
        } else {
            System.out.println(b + " is greater.");
        }
    }
}
```

4. Check Temperature: Hot or Cold

Description:
If temperature ≥ **25** → **Hot**, else **Cold**.

Sample Input:
Temperature: 18

Sample Output:
It is cold.

```
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 >= 25) {
            System.out.println("It is hot.");
        } else {
            System.out.println("It is cold.");
        }
    }
}
```

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5. Check Login Password

Description:
If the password matches "**admin123**", show **Login success**, otherwise **Login failed**.

Sample Input:
Enter password: `admin123`

Sample Output:
Login success

```
import java.util.Scanner;

class LoginCheck {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        System.out.print("Enter password: ");
        String password = sc.next();

        if (password.equals("admin123")) {
            System.out.println("Login success");
        } else {
            System.out.println("Login failed");
        }
    }
}
```

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6. Check Student Pass/Fail

Description:
Marks ≥ **40** → **Pass**, else **Fail**.

Sample Input:
Enter marks: 33

Sample Output:
Fail

```
import java.util.Scanner;

class PassFail {
    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("Pass");
        } else {
            System.out.println("Fail");
        }
    }
}
```

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7. Check Discount Eligibility

Description:
If shopping amount ≥ **₹1000** → **Discount**, else **No discount**.

Sample Input:
Amount: 750

Sample Output:
No discount available.

```
import java.util.Scanner;

class DiscountCheck {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        System.out.print("Enter amount: ");
        int amount = sc.nextInt();

        if (amount >= 1000) {
            System.out.println("Discount available.");
        } else {
            System.out.println("No discount available.");
        }
    }
}
```

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8. Check if Number is Zero or Not

Description:
If number = **0 → Zero**, else **Not zero**.

Sample Input:
Number: 0

Sample Output:
The number is zero.

```
import java.util.Scanner;

class ZeroCheck {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        System.out.print("Enter number: ");
        int number = sc.nextInt();

        if (number == 0) {
            System.out.println("The number is zero.");
        } else {
            System.out.println("The number is not zero.");
        }
    }
}
```
