1. Check if a Number is Positive, Negative, or Zero

```
import java.util.Scanner;

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

      if (num > 0)
      {
         System.out.println("Positive number.");
      }
      else if (num < 0)
      {
         System.out.println("Negative number.");
      }
      else
      {
         System.out.println("Zero.");
      }
   }
}
```

Output:

```
Enter a number: -5
Negative number.
```

2. Check if a Number is Even or Odd

```
import java.util.Scanner;

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

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

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

Output:

```
Enter a number: 4
Even number.
```

3. Print Numbers from 1 to 10 Using a For Loop

```
public class PrintNumbers
{
    public static void main(String[] args)
    {
        for (int i = 1; i <= 10; i++)
        {
            System.out.print(i + " ");
        }
    }
}
```

Output:

```
1 2 3 4 5 6 7 8 9 10
```

4. Print "Hello, World!" 5 Times

```
public class HelloWorld
{
```

```
    public static void main(String[] args)
    {
        for (int i = 1; i <= 5; i++)
        {
            System.out.println("Hello, World!");
        }
    }
}
```

Output:

```
Hello, World!
Hello, World!
Hello, World!
Hello, World!
Hello, World!
```

5. Find the Sum of First N Natural Numbers

```
import java.util.Scanner;

public class SumNaturalNumbers
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number: ");
        int n = sc.nextInt();
        int sum = 0;

        for (int i = 1; i <= n; i++)
        {
            sum += i;
        }

        System.out.println("Sum: " + sum);
    }
}
```

Output:

Enter a number: 5
Sum: 15

6. Print Multiplication Table of a Number

```
import java.util.Scanner;

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

      for (int i = 1; i <= 10; i++)
      {
         System.out.println(num + " x " + i + " = " + (num * i));
      }
   }
}
```

Output:

Enter a number: 3
3 x 1 = 3
3 x 2 = 6
...
3 x 10 = 30

7. Find the Factorial of a Number

```
import java.util.Scanner;

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

```
        int fact = 1;

        for (int i = 1; i <= num; i++)
        {
            fact *= i;
        }

        System.out.println("Factorial: " + fact);
    }
}
```

Output:

```
Enter a number: 4
Factorial: 24
```

8. Find the Largest of Two Numbers

```
import java.util.Scanner;

public class LargestNumber
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter two numbers: ");
        int a = sc.nextInt();
        int b = sc.nextInt();

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

Output:

Enter two numbers: 7 10
Largest: 10

9. Check if a Year is Leap Year

```
import java.util.Scanner;

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

      if (year % 4 == 0 && (year % 100 != 0 || year % 400 == 0))
      {
         System.out.println("Leap Year.");
      }
      else
      {
         System.out.println("Not a Leap Year.");
      }
   }
}
```

Output:

Enter a year: 2024
Leap Year.

10. Print Even Numbers from 1 to 20

```
public class EvenNumbers
{
   public static void main(String[] args)
   {
      for (int i = 2; i <= 20; i += 2)
      {
         System.out.print(i + " ");
      }
   }
```

```
}
```

Output:

2 4 6 8 10 12 14 16 18 20

11. Reverse a Number

```
import java.util.Scanner;

public class ReverseNumber
{
   public static void main(String[] args)
   {
      Scanner sc = new Scanner(System.in);
      System.out.print("Enter a number: ");
      int num = sc.nextInt();
      int rev = 0;

      while (num != 0)
      {
         rev = rev * 10 + num % 10;
         num /= 10;
      }

      System.out.println("Reversed: " + rev);
   }
}
```

Output:

Enter a number: 1234
Reversed: 4321

Here are **5 more simple Java programs** to complete the set of **15** programs with **proper formatting** and {} brackets on new lines.

12. Print the Fibonacci Series

```
import java.util.Scanner;

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

      int a = 0, b = 1, c;

      System.out.print(a + " " + b + " ");

      for (int i = 2; i < n; i++)
      {
         c = a + b;
         System.out.print(c + " ");
         a = b;
         b = c;
      }
   }
}
```

Output:

```
Enter number of terms: 7
0 1 1 2 3 5 8
```

13. Find the Sum of Digits of a Number

```
import java.util.Scanner;

public class SumOfDigits
{
   public static void main(String[] args)
   {
      Scanner sc = new Scanner(System.in);
      System.out.print("Enter a number: ");
      int num = sc.nextInt();
      int sum = 0;

      while (num != 0)
```

```
        {
            sum += num % 10;
            num /= 10;
        }

        System.out.println("Sum of digits: " + sum);
    }
}
```

Output:

```
Enter a number: 1234
Sum of digits: 10
```

14. Print a Right-Angled Triangle Pattern

```
import java.util.Scanner;

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

        for (int i = 1; i <= rows; i++)
        {
            for (int j = 1; j <= i; j++)
            {
                System.out.print("* ");
            }
            System.out.println();
        }
    }
}
```

Output:

```
Enter number of rows: 5
*
* *
```

```
* * *
* * * *
* * * * *
```

Sure! Here is a **very simple Java program** using control statements.

15. Check if a Person is Eligible to Vote

```
import java.util.Scanner;

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

      if (age >= 18)
      {
         System.out.println("You are eligible to vote.");
      }
      else
      {
         System.out.println("You are not eligible to vote.");
      }
   }
}
```

Output:

```
Enter your age: 20
You are eligible to vote.

Enter your age: 16
You are not eligible to vote.
```