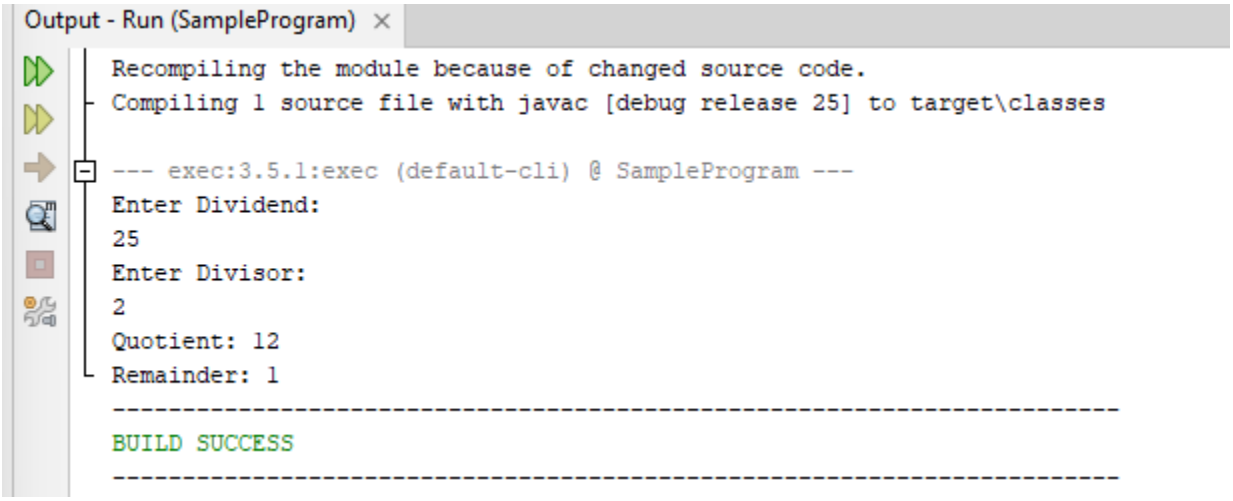
PROGRAM 1:

```
import java.util.Scanner;
public class SampleProgram {
    public static void main(String [] args) {
        Scanner scan = new Scanner(System.in);
        System.out.println("Enter Dividend:");
        int dividend = scan.nextInt();
        System.out.println("Enter Divisor:");
        int divisor = scan.nextInt();
        int quotient = dividend/divisor;
        int remainder = dividend%divisor;
        System.out.println("Quotient: " +quotient);
        System.out.println("Remainder: " +remainder);
    }

}
```

OUTPUT:

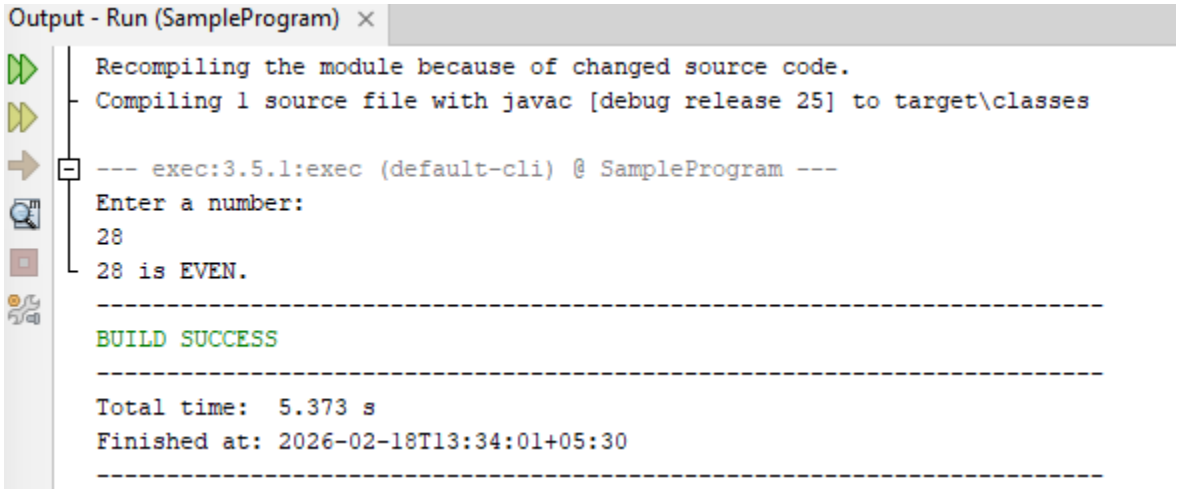


PROGRAM 2:

```
import java.util.Scanner;
public class SampleProgram {
    public static void main(String [] args) {
       Scanner scan = new Scanner(System.in);
```

```
        System.out.println("Enter a number:");
        int num = scan.nextInt();
        if(num%2==0){
            System.out.println(num + " is EVEN.");
        } else {
            System.out.println(num + " is ODD.");
        }
    }
}
```

OUTPUT:

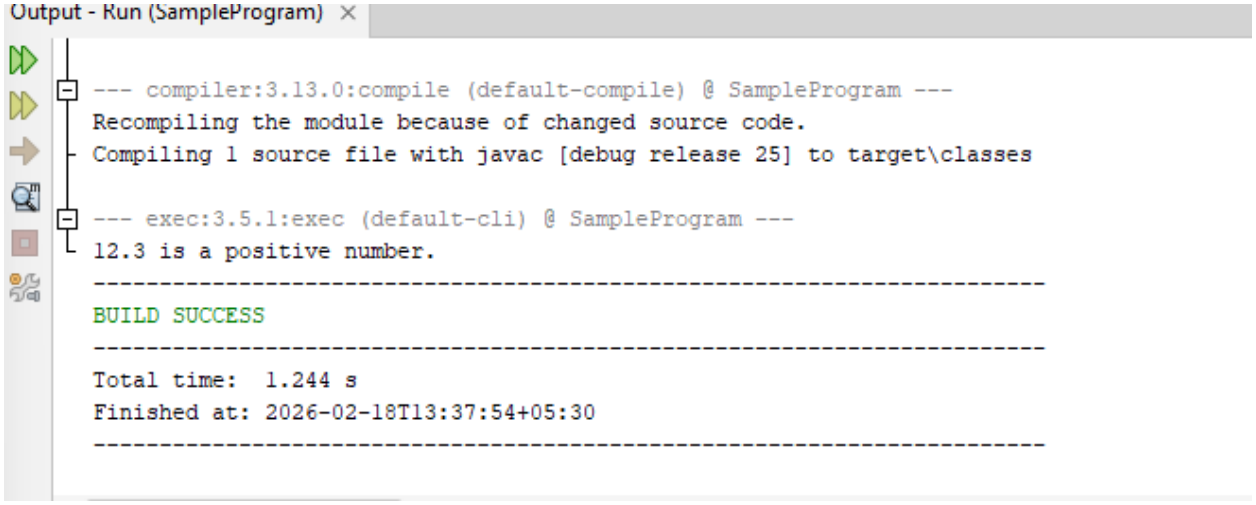


PROGRAM 3:

```
public class SampleProgram {

    public static void main(String[] args) {

        double number = 12.3;
         if (number < 0.0)
            System.out.println(number + " is a negative number.");
        else if ( number > 0.0)
            System.out.println(number + " is a positive number.");
        else
            System.out.println(number + " is 0.");
    }
```

}

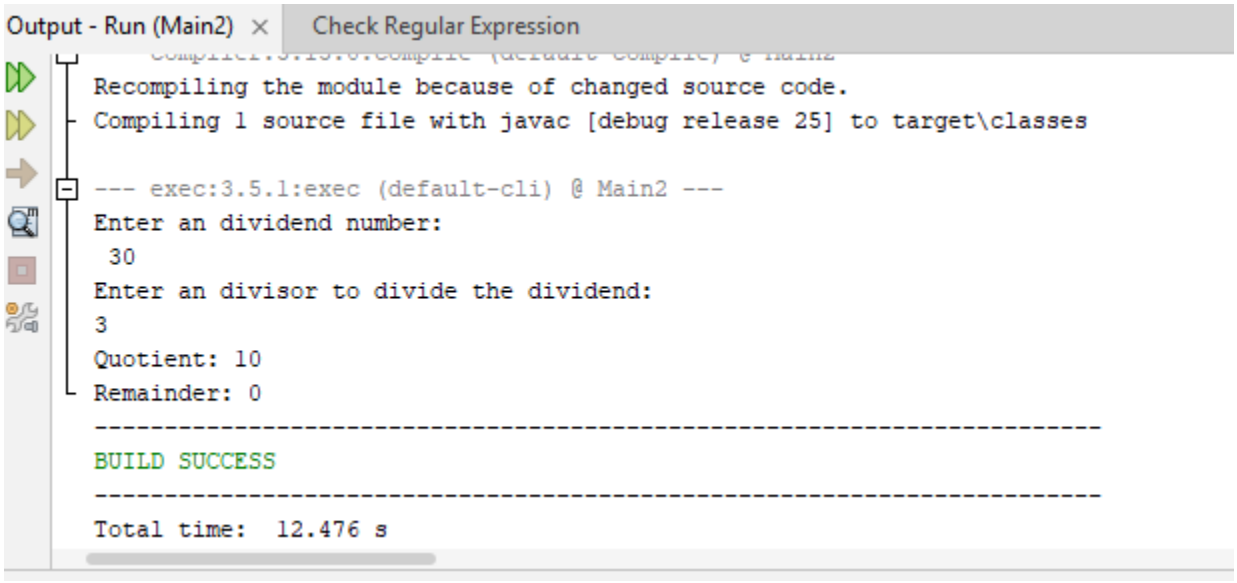
OUTPUT:



PROGRAM 1:

```
import java.util.Scanner;
public class Main2 {

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.println("Enter an dividend number:");
        int dividend = scanner.nextInt();
        System.out.println("Enter an divisor to divide the dividend:");
        int divisor = scanner.nextInt();
        int quotient = dividend/divisor;
        int remainder = dividend%divisor;
        System.out.println("Quotient: " + quotient);
        System.out.println("Remainder: " + remainder);
        scanner.close();
    }
}
```

OUTPUT :

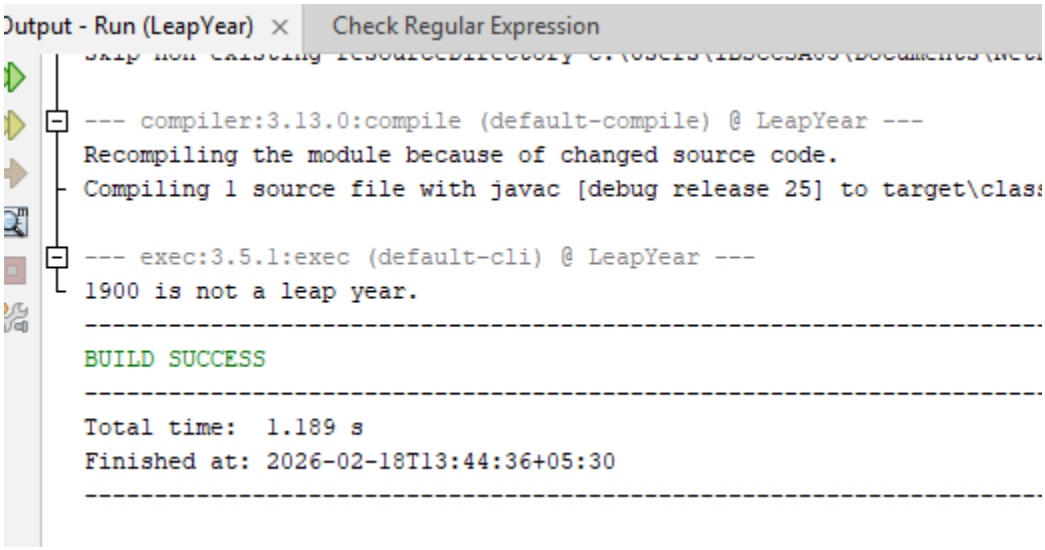


PROGRAM 2 :

```
public class LeapYear {

 public static void main(String[] args) {
   int year = 1900;
   boolean leap = false;
   if (year % 4 == 0) {
     if (year % 100 == 0) {
       if (year % 400 == 0){
         leap = true;
       }else{
         leap = false;
     }
```

```
    }else{
      leap = true;
   }

   } else
     leap = false;

   if (leap){
     System.out.println(year + " is a leap year.");
   }else{
     System.out.println(year + " is not a leap year.");
  }
}
}
```

OUTPUT :



PROGRAM 3:

```
public class Sample {

    public static void main(String[] args) {

        int num = 5;
        for(int i = 1; i <= 10; ++i)
        {
            System.out.printf("%d * %d = %d \n", num, i, num * i);
        }
    }
}
```

OUTPUT :