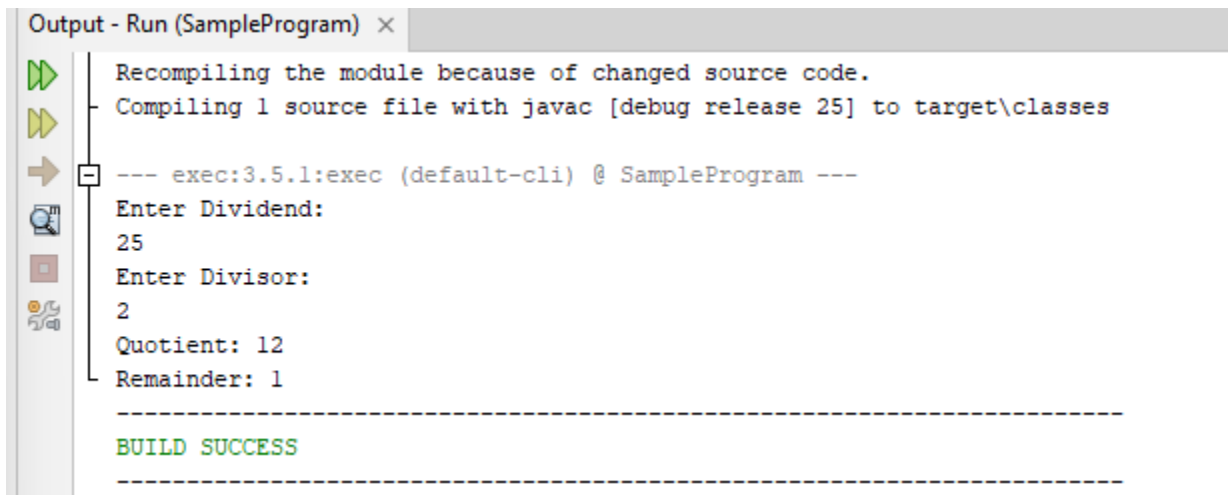


PROGRAM 1:

```
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:



```
Output - Run (SampleProgram) x
Recompiling the module because of changed source code.
Compiling 1 source file with javac [debug release 25] to target\classes
--- exec:3.5.1:exec (default-cli) @ SampleProgram ---
Enter Dividend:
25
Enter Divisor:
2
Quotient: 12
Remainder: 1
-----
BUILD SUCCESS
-----
```

PROGRAM 2:

```
import java.util.Scanner;

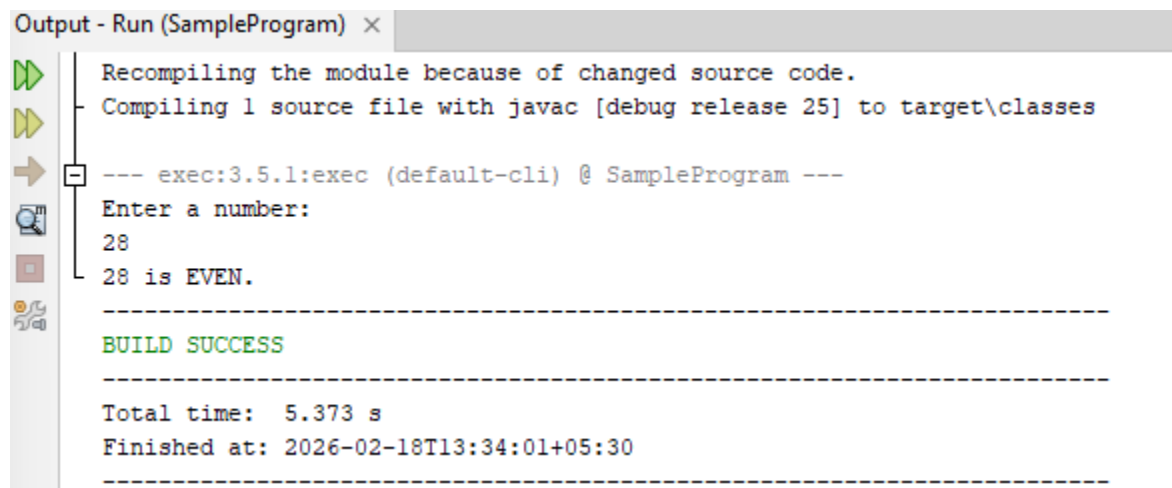
public class SampleProgram {
    public static void main(String [] args) {
        Scanner scan = new Scanner(System.in);
```

```

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:



```

Output - Run (SampleProgram) ×
Recompiling the module because of changed source code.
Compiling 1 source file with javac [debug release 25] to target\classes
--- exec:3.5.1:exec (default-cli) @ SampleProgram ---
Enter a number:
28
28 is EVEN.
-----
BUILD SUCCESS
-----
Total time: 5.373 s
Finished at: 2026-02-18T13:34:01+05:30
-----

```

PROGRAM 3:

```

public class SampleProgram {

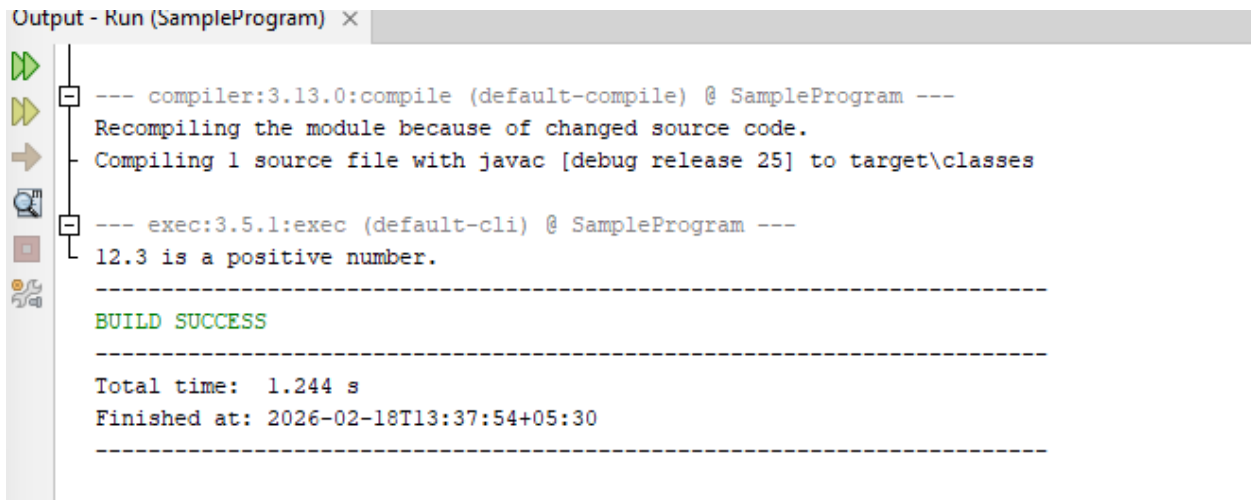
    public static void main(String[] args) {

        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:



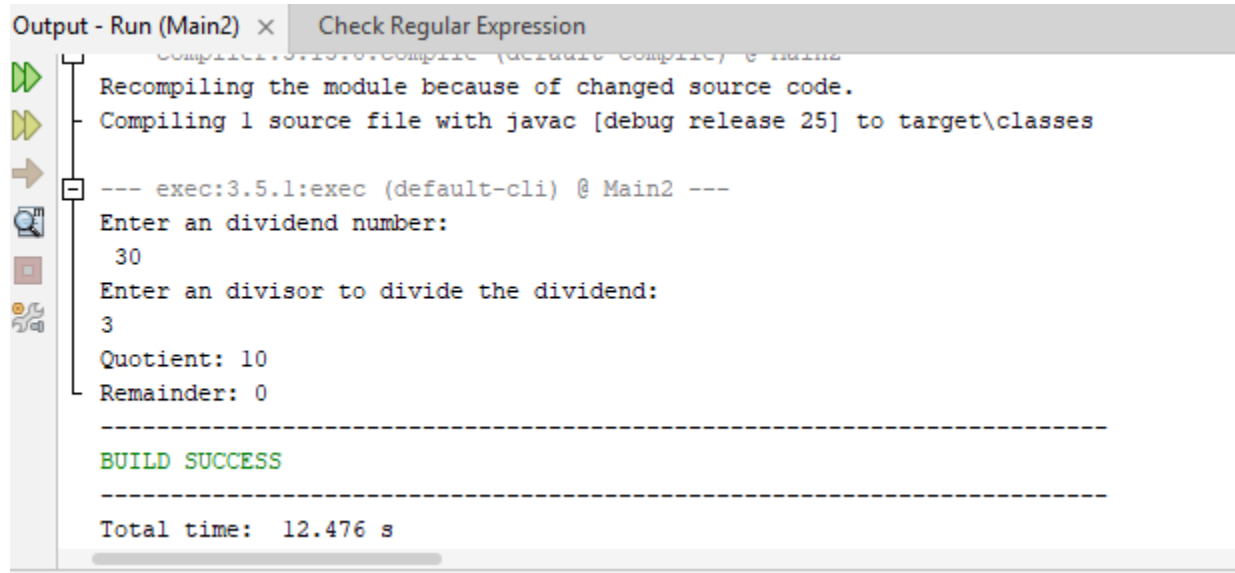
The screenshot shows an IDE output window titled "Output - Run (SampleProgram) X". On the left, there is a vertical toolbar with icons for running, stepping through, and other debugging actions. The output text is as follows:

```
--- compiler:3.13.0:compile (default-compile) @ SampleProgram ---  
Recompiling the module because of changed source code.  
- Compiling 1 source file with javac [debug release 25] to target\classes  
  
--- exec:3.5.1:exec (default-cli) @ SampleProgram ---  
12.3 is a positive number.  
  
-----  
BUILD SUCCESS  
-----  
  
Total time: 1.244 s  
Finished at: 2026-02-18T13:37:54+05:30  
-----
```

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 :



```
Output - Run (Main2) x Check Regular Expression
Compiler:3.10.0:compile (default-compile) @ Main2
Recompiling the module because of changed source code.
Compiling 1 source file with javac [debug release 25] to target\classes
--- exec:3.5.1:exec (default-cli) @ Main2 ---
Enter an dividend number:
30
Enter an divisor to divide the dividend:
3
Quotient: 10
Remainder: 0
-----
BUILD SUCCESS
-----
Total time: 12.476 s
```

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;
                }
            }
        }
    }
}
```

```

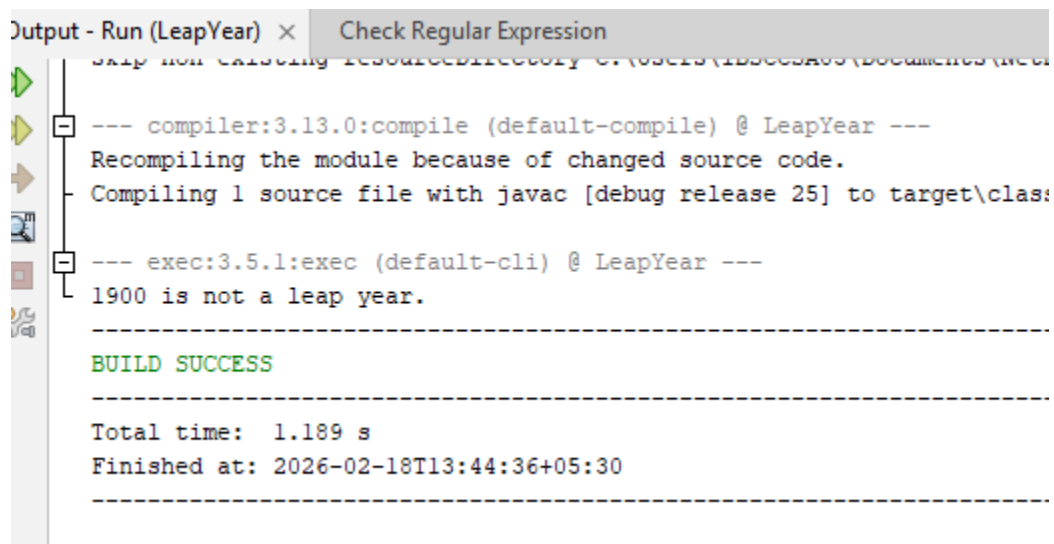
    }else{
        leap = true;
    }

} else
    leap = false;

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

```

OUTPUT :



```

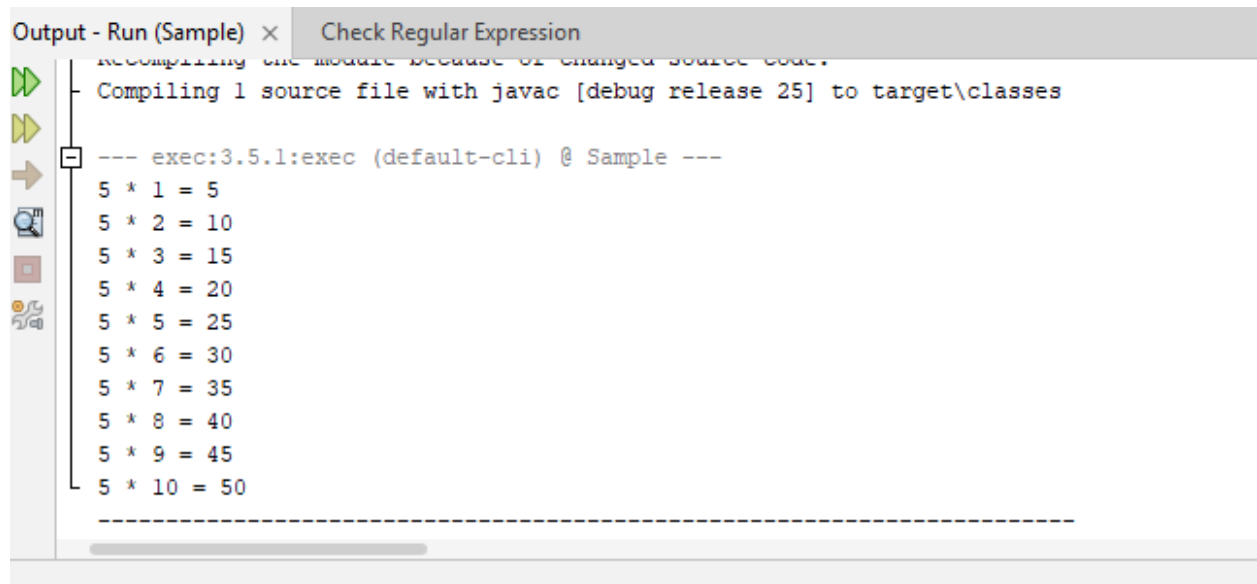
Output - Run (LeapYear) × Check Regular Expression
--- compiler:3.13.0:compile (default-compile) @ LeapYear ---
Recompiling the module because of changed source code.
Compiling 1 source file with javac [debug release 25] to target\classes
--- exec:3.5.1:exec (default-cli) @ LeapYear ---
1900 is not a leap year.
-----
BUILD SUCCESS
-----
Total time: 1.189 s
Finished at: 2026-02-18T13:44:36+05:30
-----

```

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 :



```
Output - Run (Sample) x Check Regular Expression  
--- exec:3.5.1:exec (default-cli) @ Sample ---  
5 * 1 = 5  
5 * 2 = 10  
5 * 3 = 15  
5 * 4 = 20  
5 * 5 = 25  
5 * 6 = 30  
5 * 7 = 35  
5 * 8 = 40  
5 * 9 = 45  
5 * 10 = 50
```