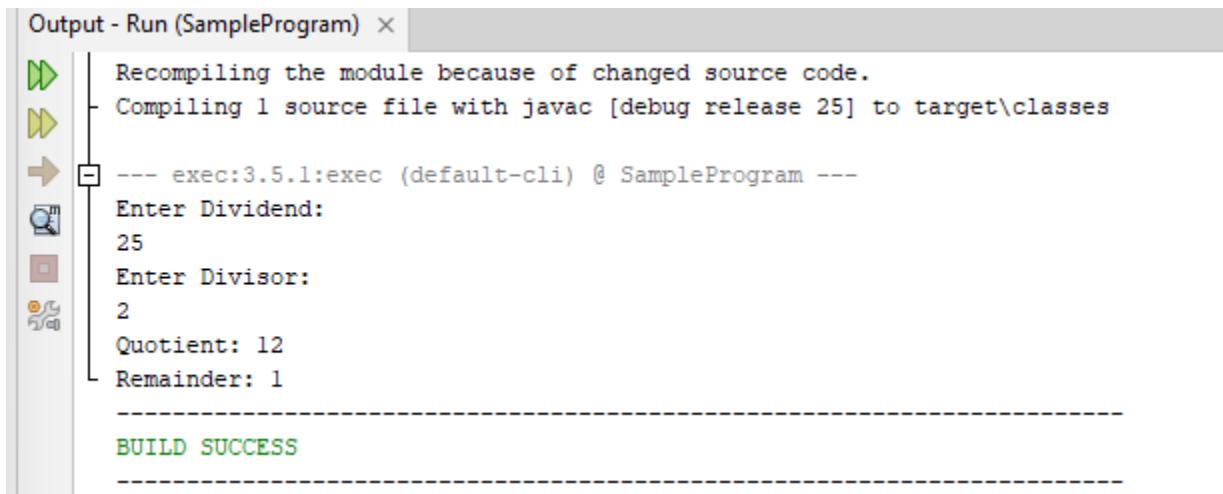


PROGRAM 1:

```
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:

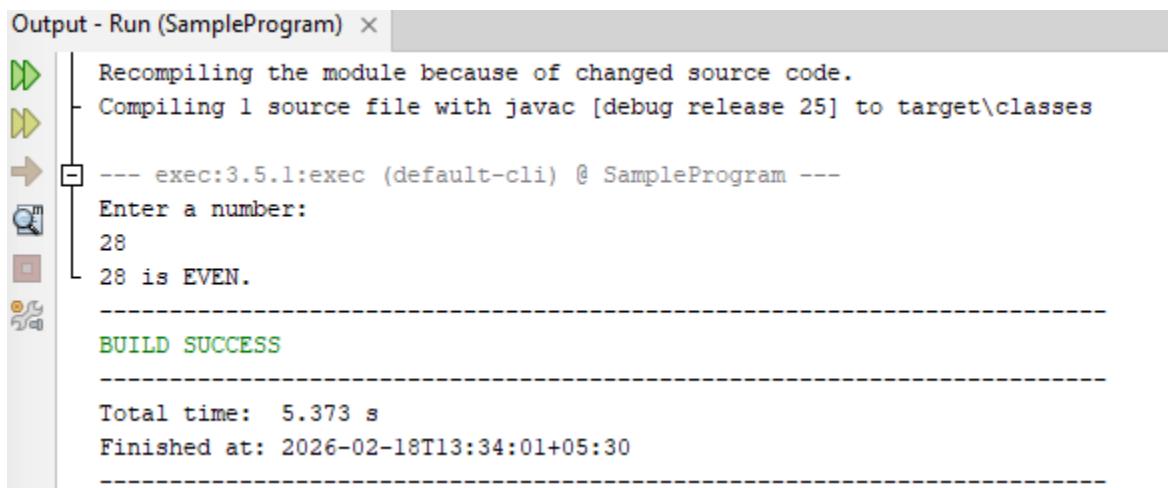
```
import java.util.Scanner;
public class SampleProgram {
    public static void main(String [] args) {
        Scanner scan = new Scanner(System.in);
```

```

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 {

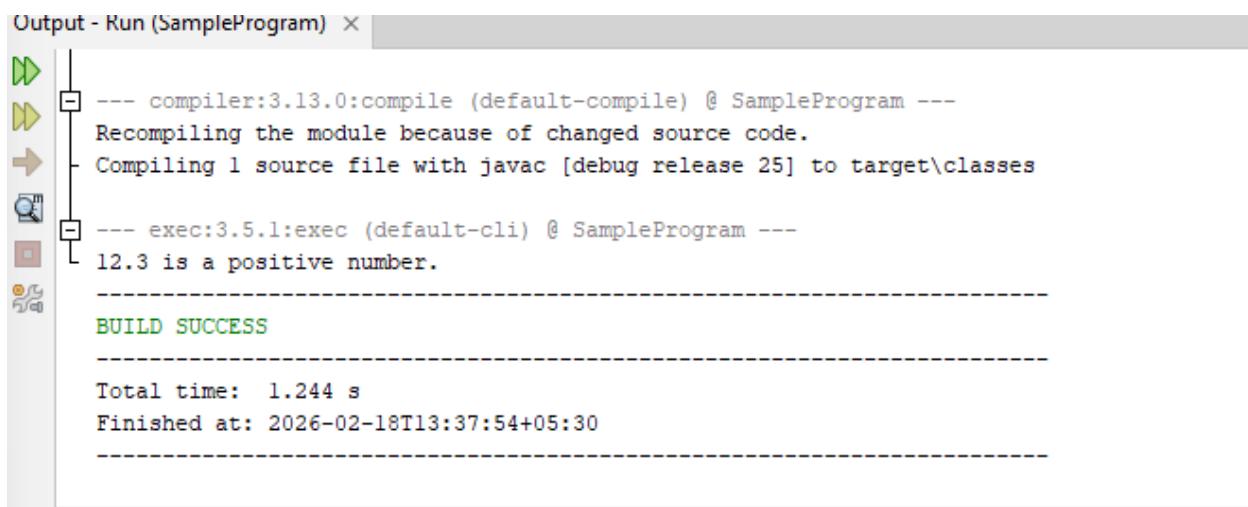
    public static void main(String[] args) {

        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 a terminal window titled "Output - Run (SampleProgram)". The log output 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) × Check Regular Expression
└─ Compiling 1 source file with javac [debug release 25] to target\classes
  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;
                }
            }
        }
    }
}
```

```

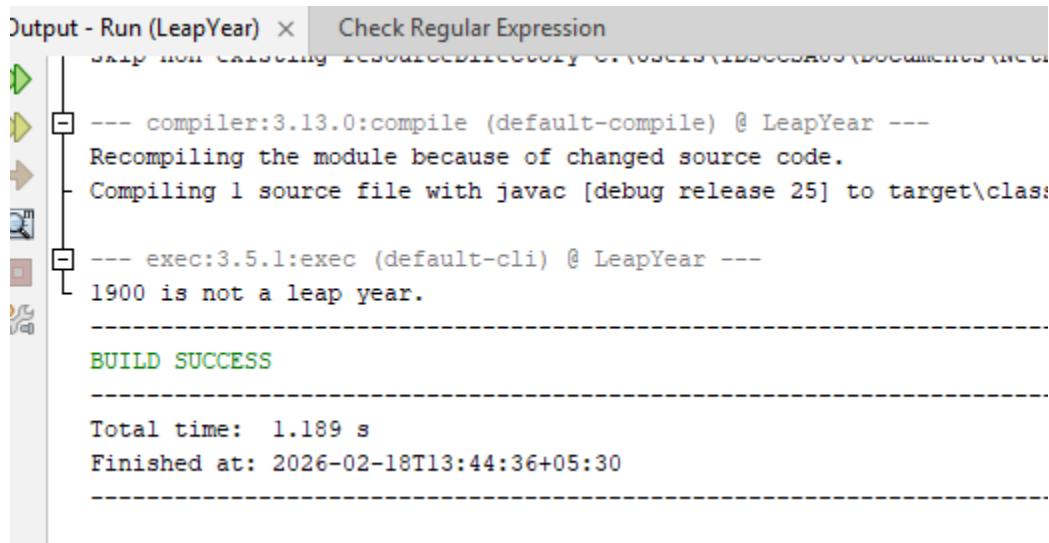
}else{
    leap = true;
}

} else
    leap = false;

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

```

OUTPUT :



The screenshot shows the IntelliJ IDEA Output window with the title "Output - Run (LeapYear) x Check Regular Expression". The window displays the following log entries:

- 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.

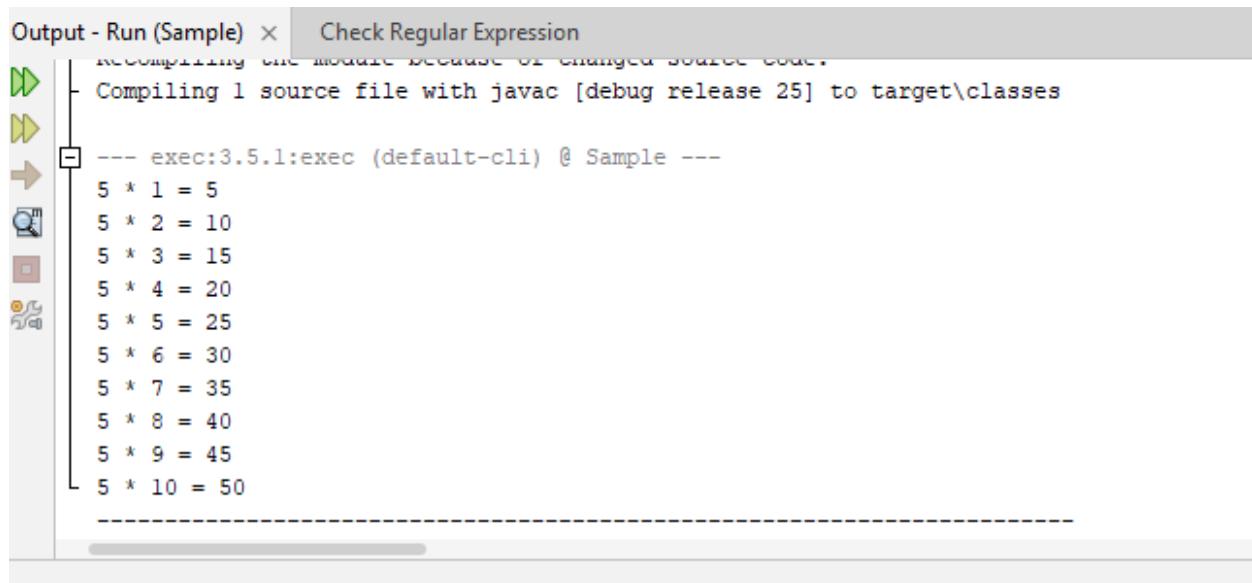
BUILD SUCCESS

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 :



The screenshot shows the IntelliJ IDEA Output window titled "Output - Run (Sample)". The window displays the compilation process and the execution output. The compilation message is: "Compiling 1 source file with javac [debug release 25] to target\classes". The execution output shows the multiplication table of 5 from 1 to 10:

```
--- 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
```