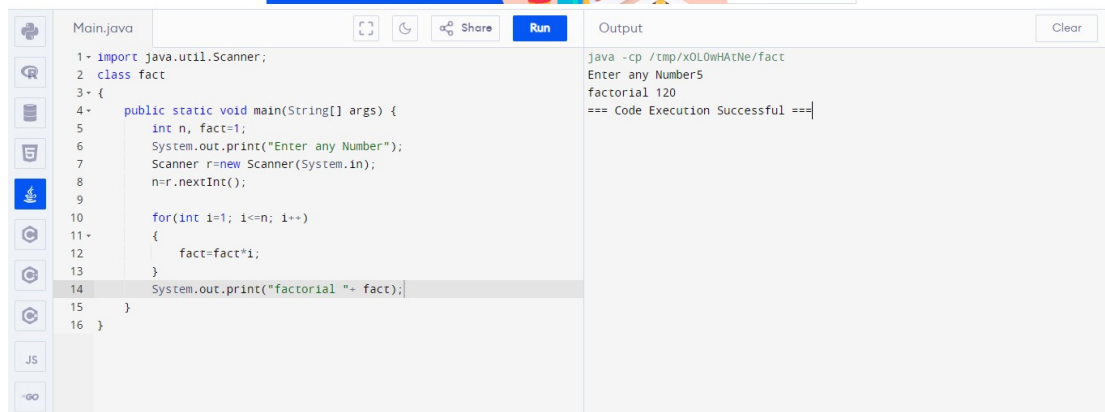


Task 3

Write a program to calculate the factorial of a number entered by the user using loops.

Solution



The screenshot shows an IDE with a file named 'Main.java'. The code is as follows:

```
1- import java.util.Scanner;
2- class fact
3- {
4-     public static void main(String[] args) {
5-         int n, fact=1;
6-         System.out.print("Enter any Number");
7-         Scanner r=new Scanner(System.in);
8-         n=r.nextInt();
9-
10-        for(int i=1; i<=n; i++)
11-        {
12-            fact=fact*i;
13-        }
14-        System.out.print("factorial "+ fact);
15-    }
16- }
```

The output window shows the following text:

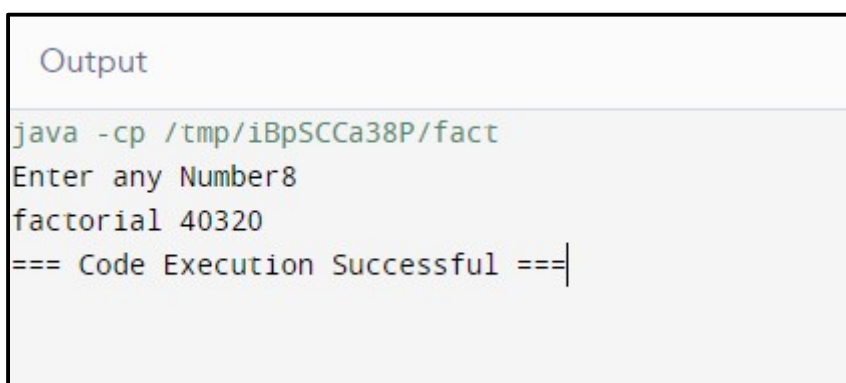
```
java -cp /tmp/xOLOwHAtNe/fact
Enter any Number5
factorial 120
=== Code Execution Successful ===
```

Code

```
import java.util.Scanner;
class fact
{
    public static void main(String[] args) {
        int n, fact=1;
        System.out.print("Enter any Number");
        Scanner r=new Scanner(System.in);
        n=r.nextInt();

        for(int i=1; i<=n; i++)
        {
            fact=fact*i;
        }
        System.out.print("factorial "+ fact);
    }
}
```

Output



The screenshot shows the output of the program in a window titled 'Output'.

```
java -cp /tmp/iBpSCCa38P/fact
Enter any Number8
factorial 40320
=== Code Execution Successful ===
```