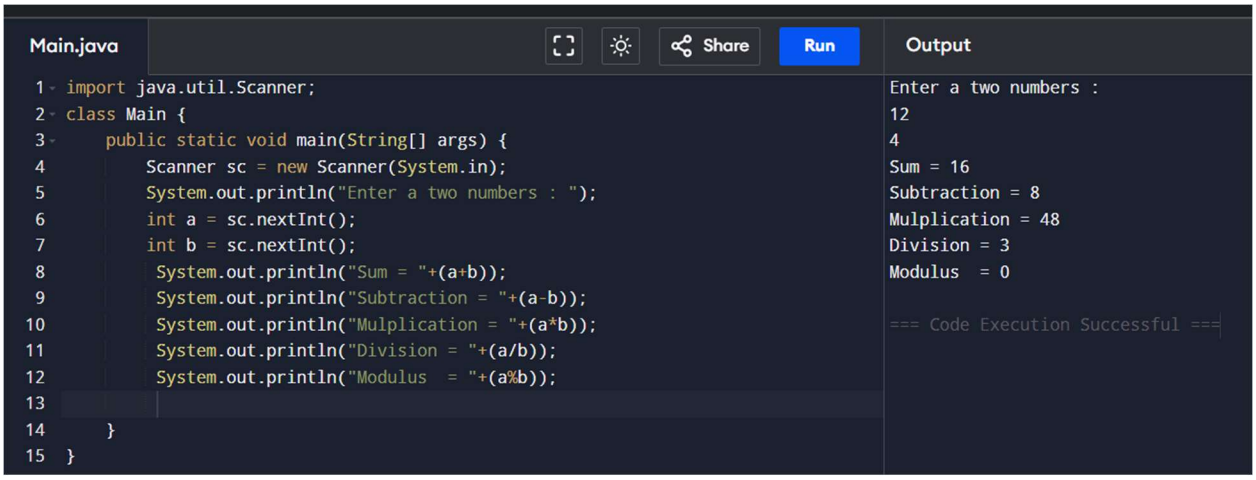
1. Write a program in Java to print “Your Name”.

2.Write a program in java to perform all Operators.

(a) Arithmetic Operator –



(b) Relational Operator –

Main.java

```java
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter a two numbers : ");
        int a = sc.nextInt();
        int b = sc.nextInt();
         System.out.println("a == b : "+(a == b));
         System.out.println("a != b : "+(a != b));
         System.out.println("a < b : "+(a < b));
         System.out.println("a <= b : "+(a <= b));
         System.out.println("a > b : "+(a > b));
         System.out.println("a >= b : "+(a >= b));
    }
}
```

Output

```
Enter a two numbers :
12
12
a == b : true
a != b : false
a < b : false
a <= b : true
a > b : false
a >= b : true

=== Code Execution Successful ===
```

(c) Logical Operator –

```java
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter a two numbers : ");
        int a = sc.nextInt();
        int b = sc.nextInt();
         System.out.println("(a == b) && (a != b) : "+((a == b) && (a != b)));
         System.out.println("(a < b) || (a <= b) : "+((a < b) || (a <= b)));
         System.out.println("!(a > b) : "+!(a > b));
    }
}
```

```
Enter a two numbers :
12
12
(a == b) && (a != b) : false
(a < b) || (a <= b) : true
!(a > b) : true

=== Code Execution Successful ===
```

(d) Bitwise Operator –

Main.java

```java
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter a two numbers : ");
        int a = sc.nextInt();
        int b = sc.nextInt();
         System.out.println("a & b : "+(a & b));
         System.out.println("a | b : "+(a | b));
         System.out.println("a ^ b : "+(a ^ b));
         System.out.println("~ a : "+(~a));
         System.out.println("a << 2 : "+(a << 2));
         System.out.println("a >> 2 : "+(a >> 2));
    }
}
```

Output

```
Enter a two numbers :
12
23
a & b : 4
a | b : 31
a ^ b : 27
~ a : -13
a << 2 : 48
a >> 2 : 3

=== Code Execution Successful ===
```

(e) Assignment Operator –

(f) Unary Operator –

3. Write a program to check whether a number is even or odd.

4. Write a program to print Even numbers.

5.Write a program to calculate the factorial of a given number.

6. Write a program to reverse number.

Main.java

Share Run

Output

```java
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
       System.out.println("Enter the number : ");
       Scanner sc = new Scanner(System.in);
       int n = sc.nextInt();
       int remainder;
       int reverse = 0;
       for(int i=0;n>0;i++){
           remainder = n%10;
           reverse = reverse*10+remainder;
           n = n/10;
       }
       System.out.println(reverse);
    }
}
```

```
Enter the number :
144
441

=== Code Execution Successful ===
```

7. Write a program to check if a number is a palindrome number.

Main.java

Share Run

Output

```java
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
       System.out.println("Enter the number : ");
       Scanner sc = new Scanner(System.in);
       int n = sc.nextInt();
       int original =n;
       int remainder;
       int reverse = 0;
       for(int i=0;n>0;i++){
           remainder = n%10;
           reverse = reverse*10+remainder;
           n = n/10;
       }
       System.out.println(reverse);
       if(reverse == original){
       System.out.println("palindrome");
       }
       else{
           System.out.println("Not Palindrome");
       }
    }
}
```

```
Enter the number :
234
432
Not Palindrome

=== Code Execution Successful ===
```

8. Write a program to check if a number is a Armstrong number.

Main.java

Share Run

```java
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
       System.out.println("Enter the number : ");
       Scanner sc = new Scanner(System.in);
       int n = sc.nextInt();
        int original = n;
       int armstrong = 0,remainder;
       for(int i = 1;n>0;i++){
           remainder = n%10;
           armstrong =  armstrong+(remainder*remainder*remainder);
           n = n/10;
       }
       System.out.println(armstrong);
       if(original == armstrong){
           System.out.println("Armstrong number");
       }
       else{
           System.out.println("not Armstrong number");
       }
    }
}
```

Output

```
Enter the number :
123
36
not Armstrong number

=== Code Execution Successful ===
```

9. Write a program to check if a number is prime or not.

```java
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
       System.out.println("Enter the number : ");
       Scanner sc = new Scanner(System.in);
       int n = sc.nextInt();
       int isprime = 0;
      for(int i=1;i<=n;i++){
          if(n%i==0){
          isprime++;
          }
      }
      if(isprime==2){
          System.out.println("prime number");
      }
      else{
          System.out.println("Not prime number");
      }
    }
}
```

```
Enter the number :
17
prime number

=== Code Execution Successful ===
```

10. Write a program to