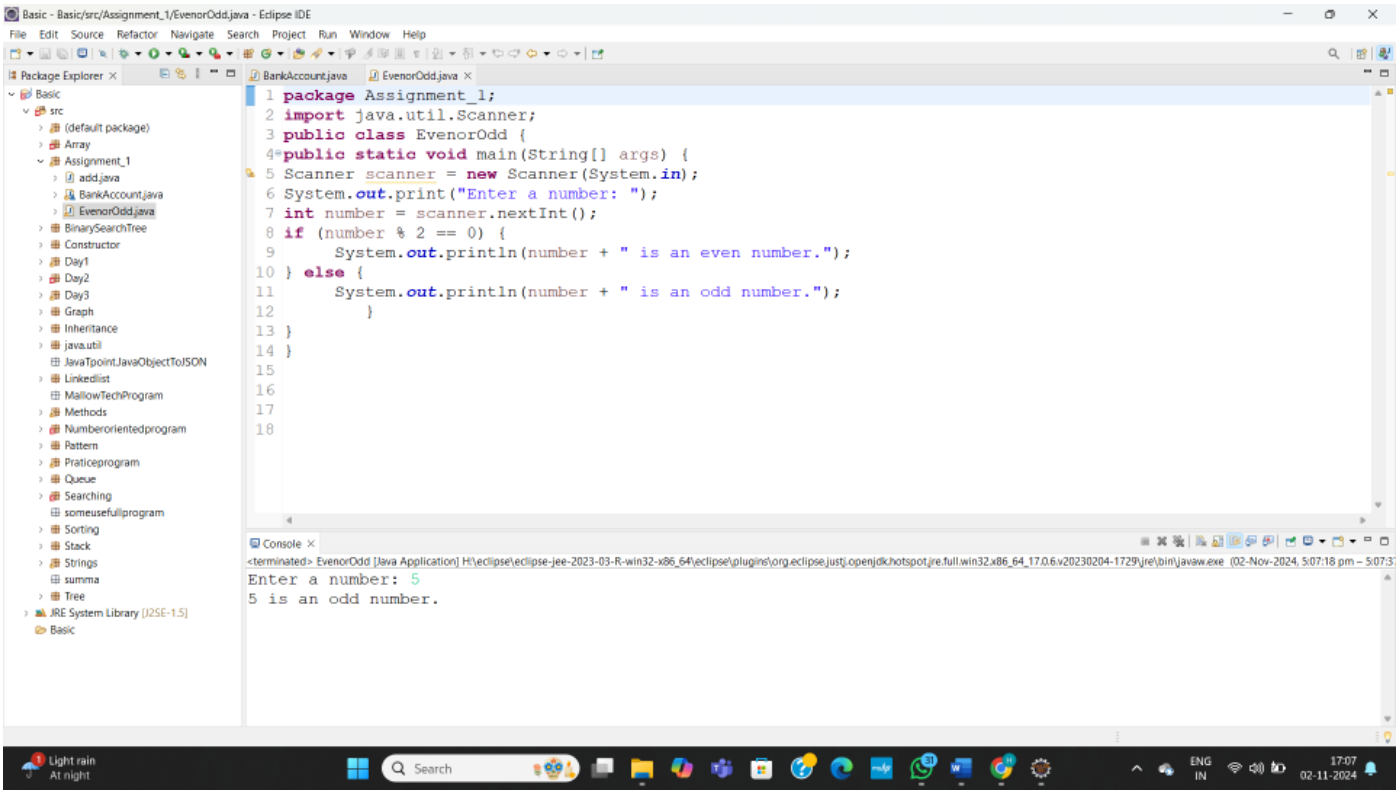
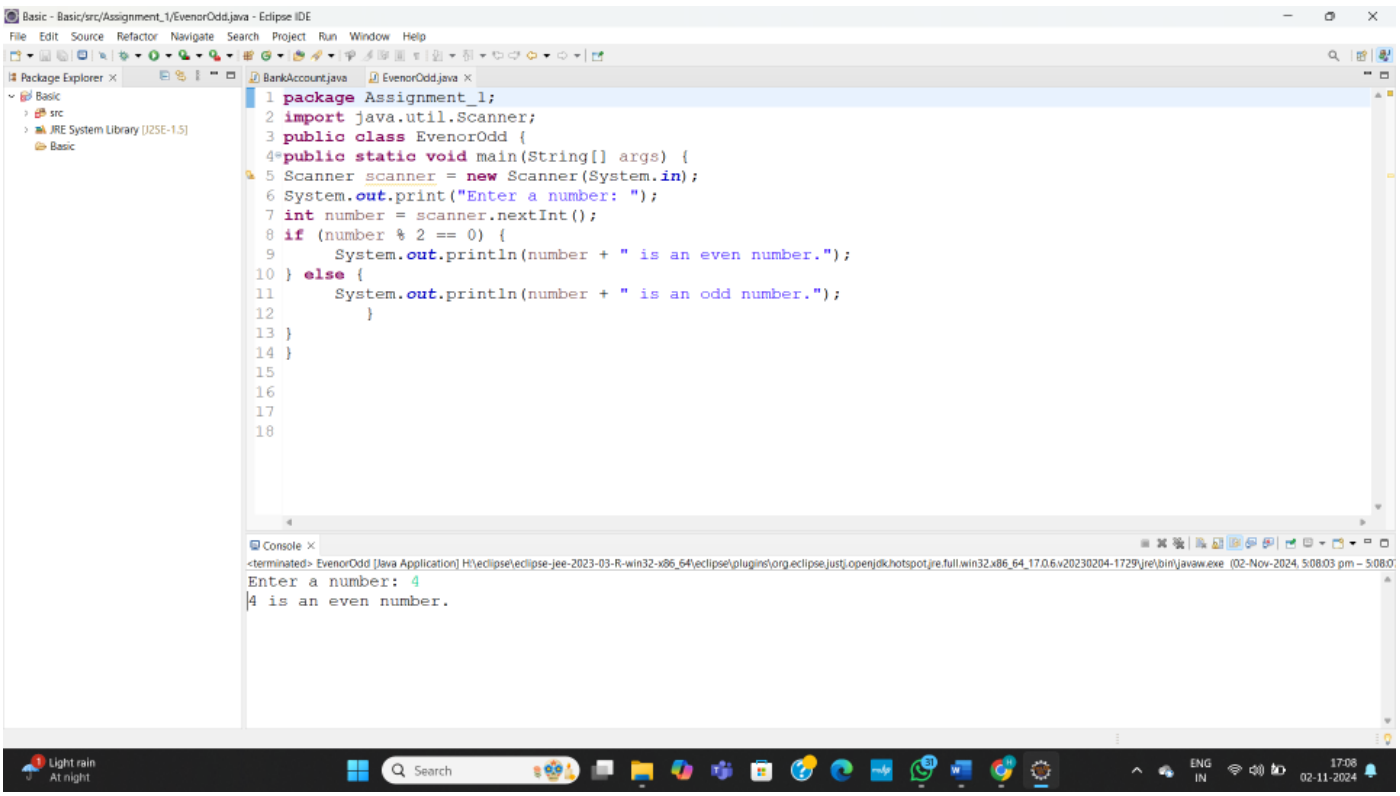
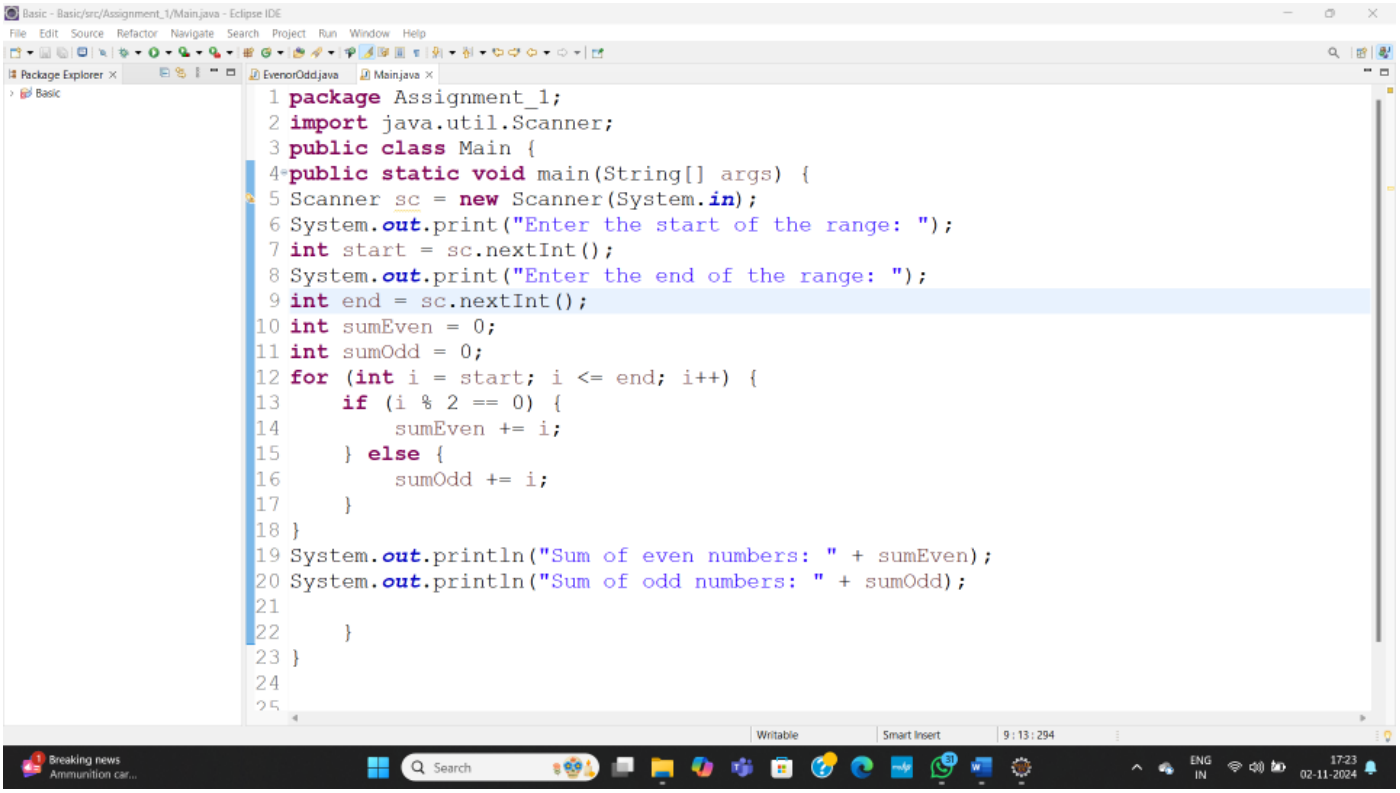
Assignment-2

To check given number is Even or Odd



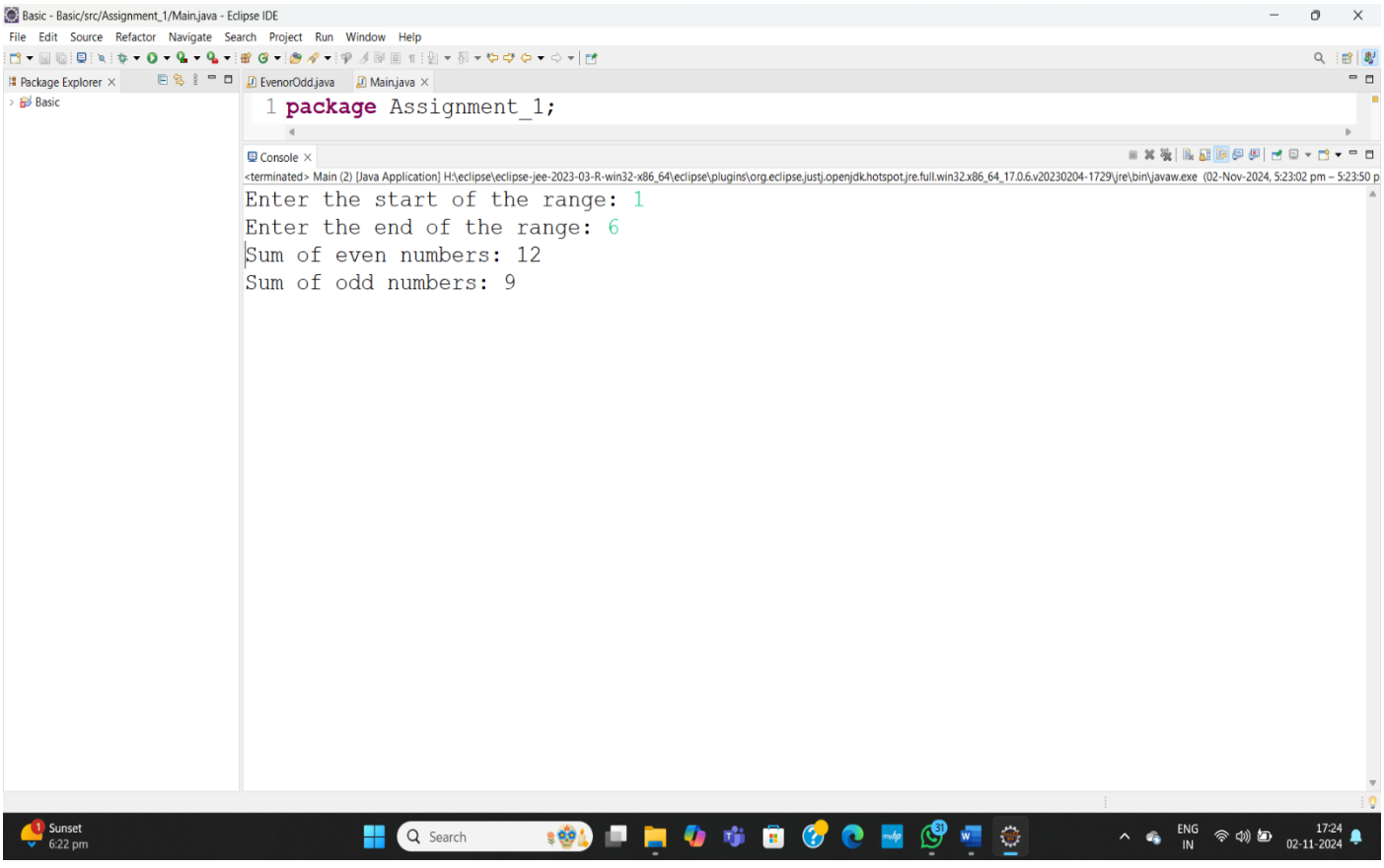


To Find the sum of even and odd number with in a given range



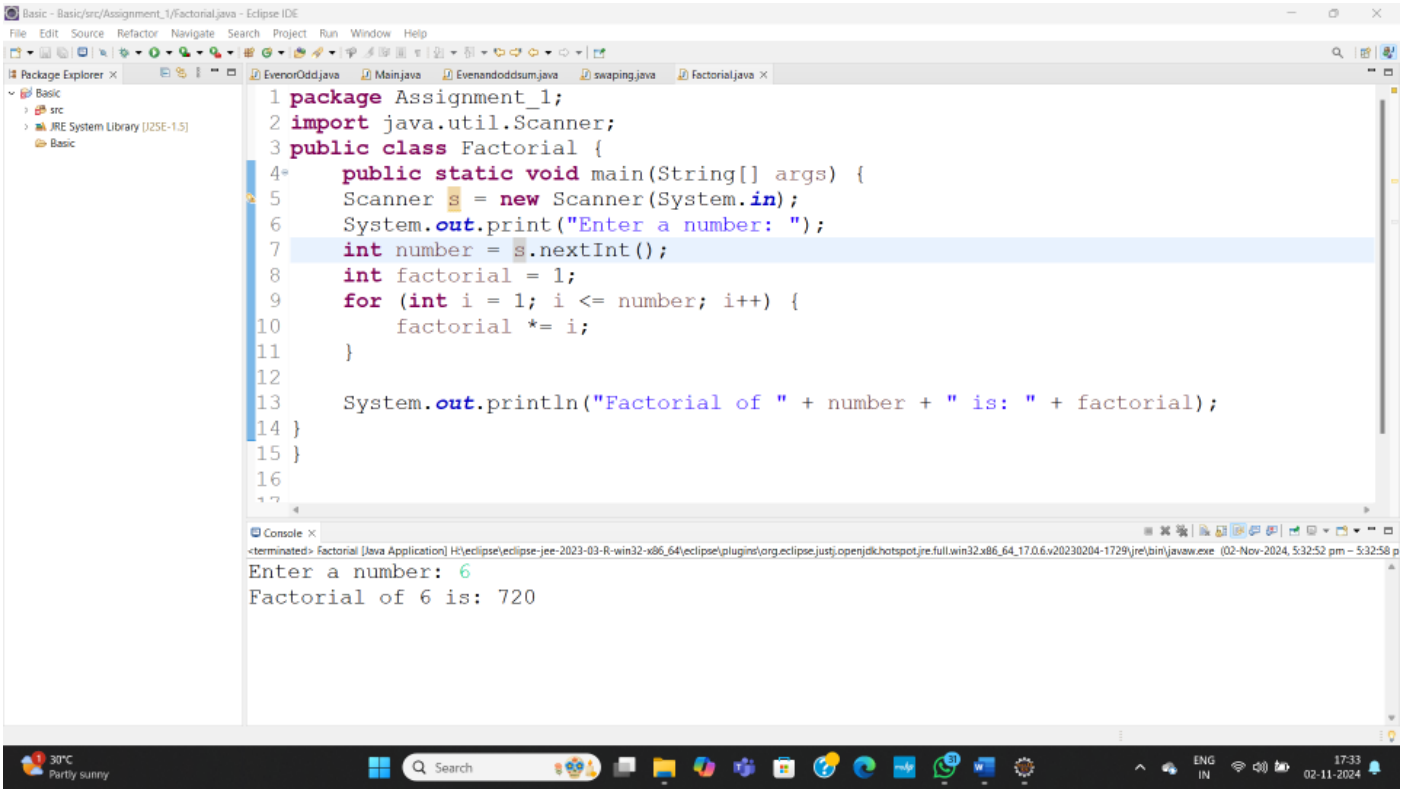
```java
package Assignment_1;
import java.util.Scanner;
public class Main {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
System.out.print("Enter the start of the range: ");
int start = sc.nextInt();
System.out.print("Enter the end of the range: ");
int end = sc.nextInt();
int sumEven = 0;
int sumOdd = 0;
for (int i = start; i <= end; i++) {
    if (i % 2 == 0) {
        sumEven += i;
    } else {
        sumOdd += i;
    }
}
System.out.println("Sum of even numbers: " + sumEven);
System.out.println("Sum of odd numbers: " + sumOdd);

    }
}
```

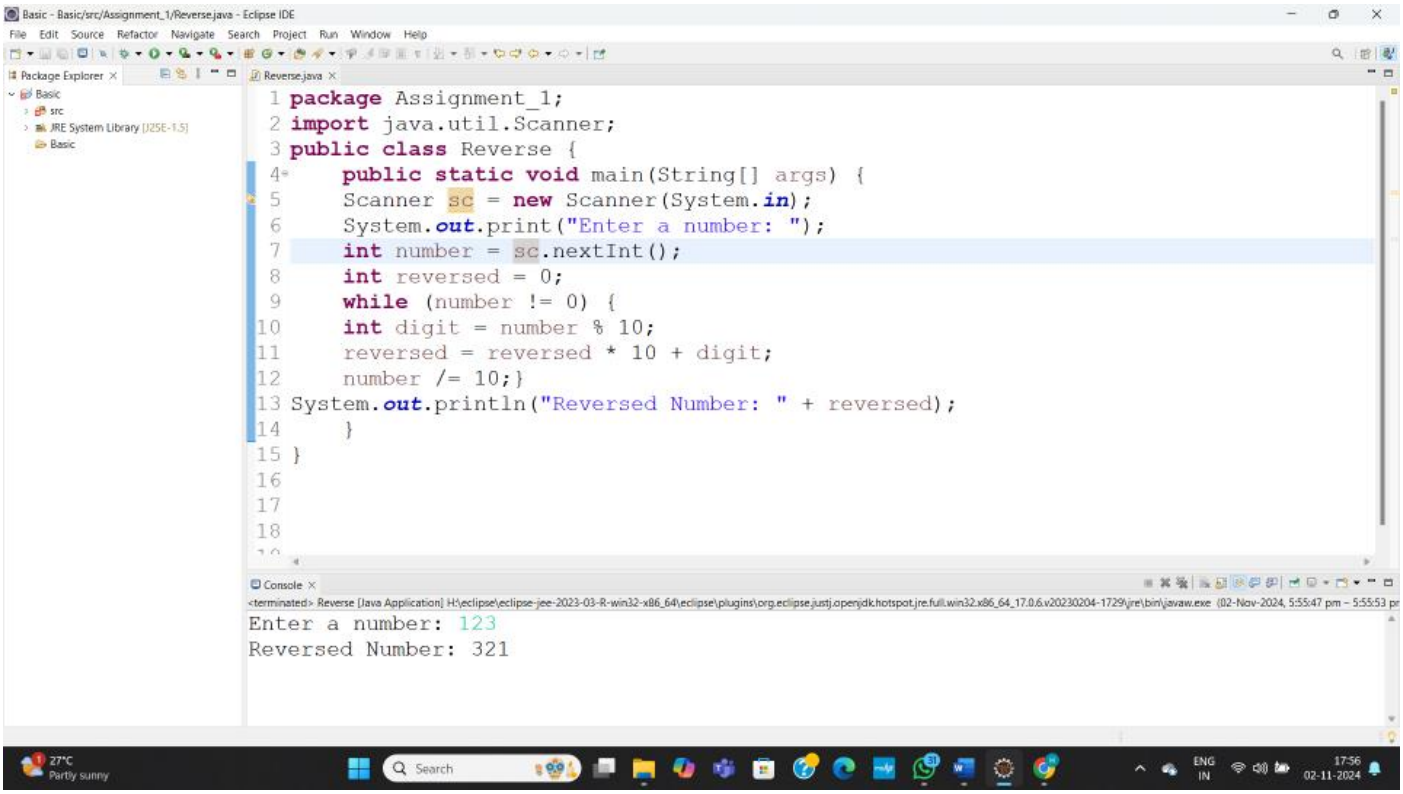


```
Enter the start of the range: 1
Enter the end of the range: 6
Sum of even numbers: 12
Sum of odd numbers: 9
```

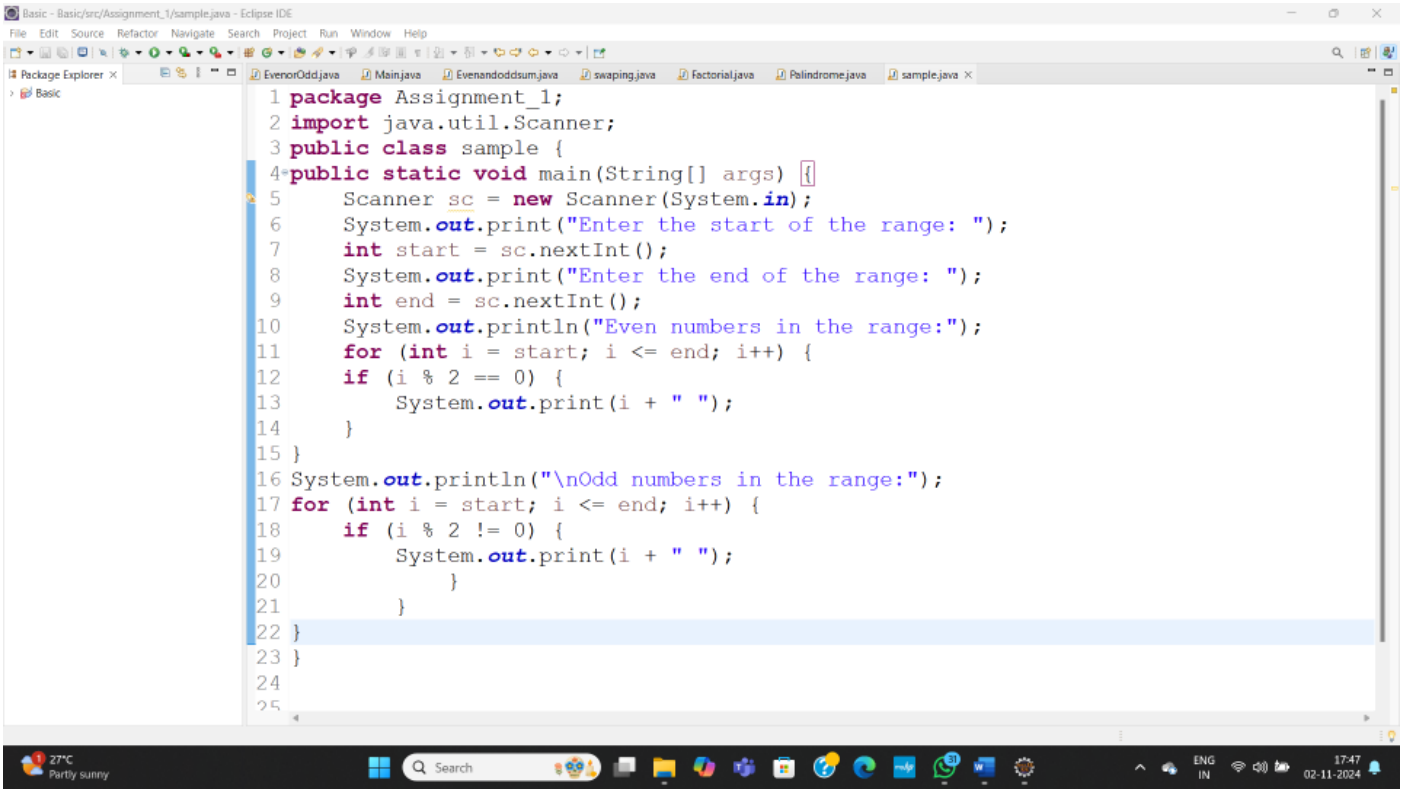
Factorial Program



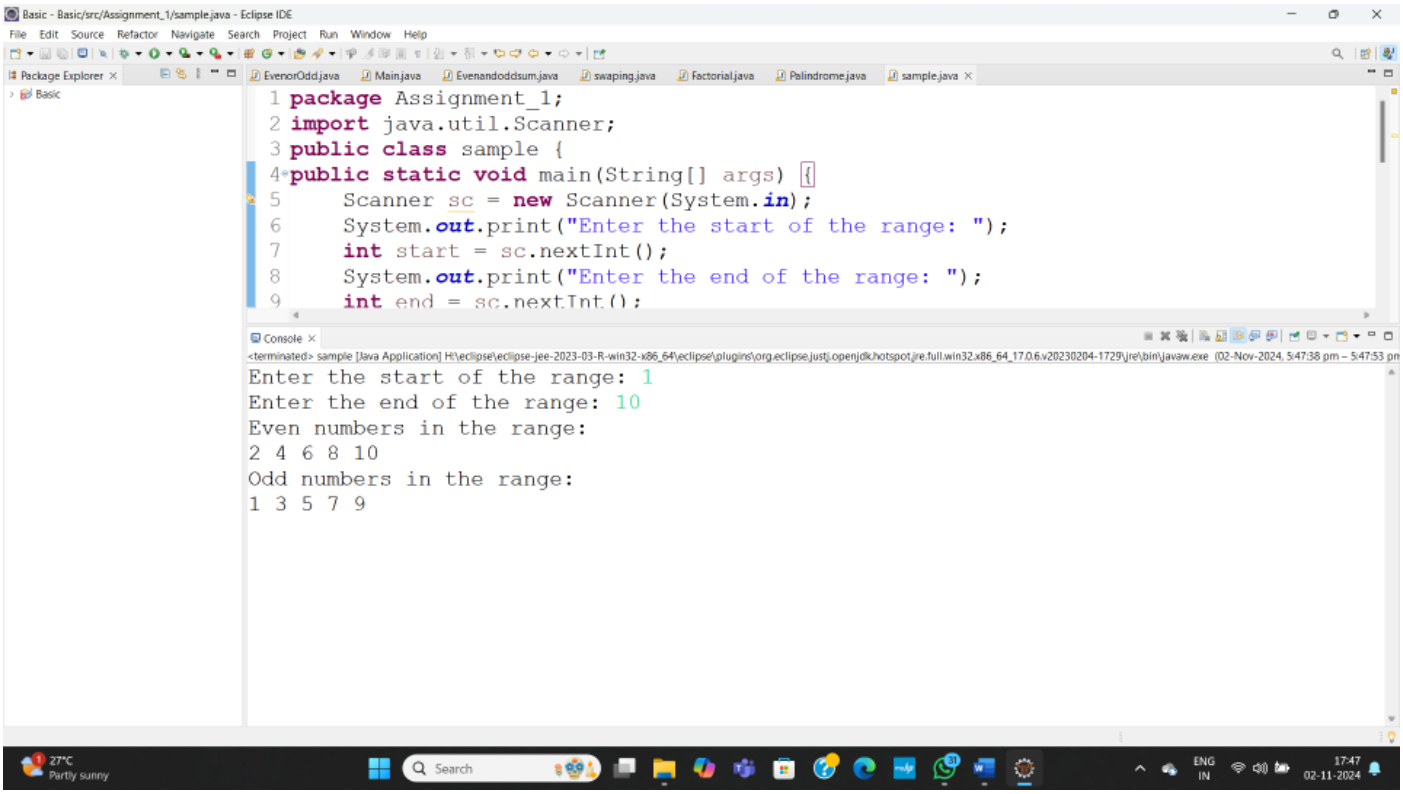
Reverse a Integer Program



To Determine the number of Even and odd numbers within a given range



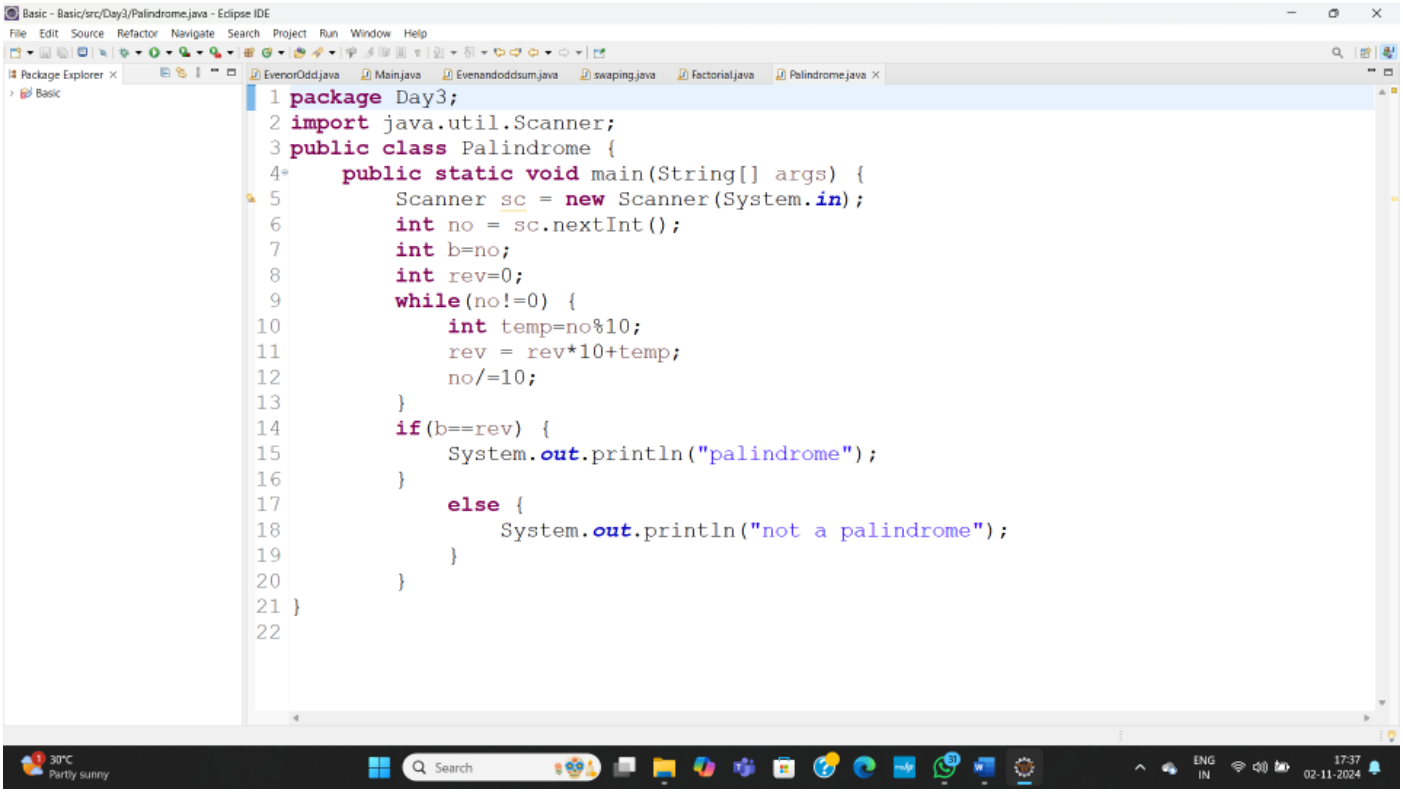
```java
package Assignment_1;
import java.util.Scanner;
public class sample {
public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    System.out.print("Enter the start of the range: ");
    int start = sc.nextInt();
    System.out.print("Enter the end of the range: ");
    int end = sc.nextInt();
    System.out.println("Even numbers in the range:");
    for (int i = start; i <= end; i++) {
    if (i % 2 == 0) {
        System.out.print(i + " ");
    }
}
System.out.println("\nOdd numbers in the range:");
for (int i = start; i <= end; i++) {
    if (i % 2 != 0) {
        System.out.print(i + " ");
            }
        }
}
}
```

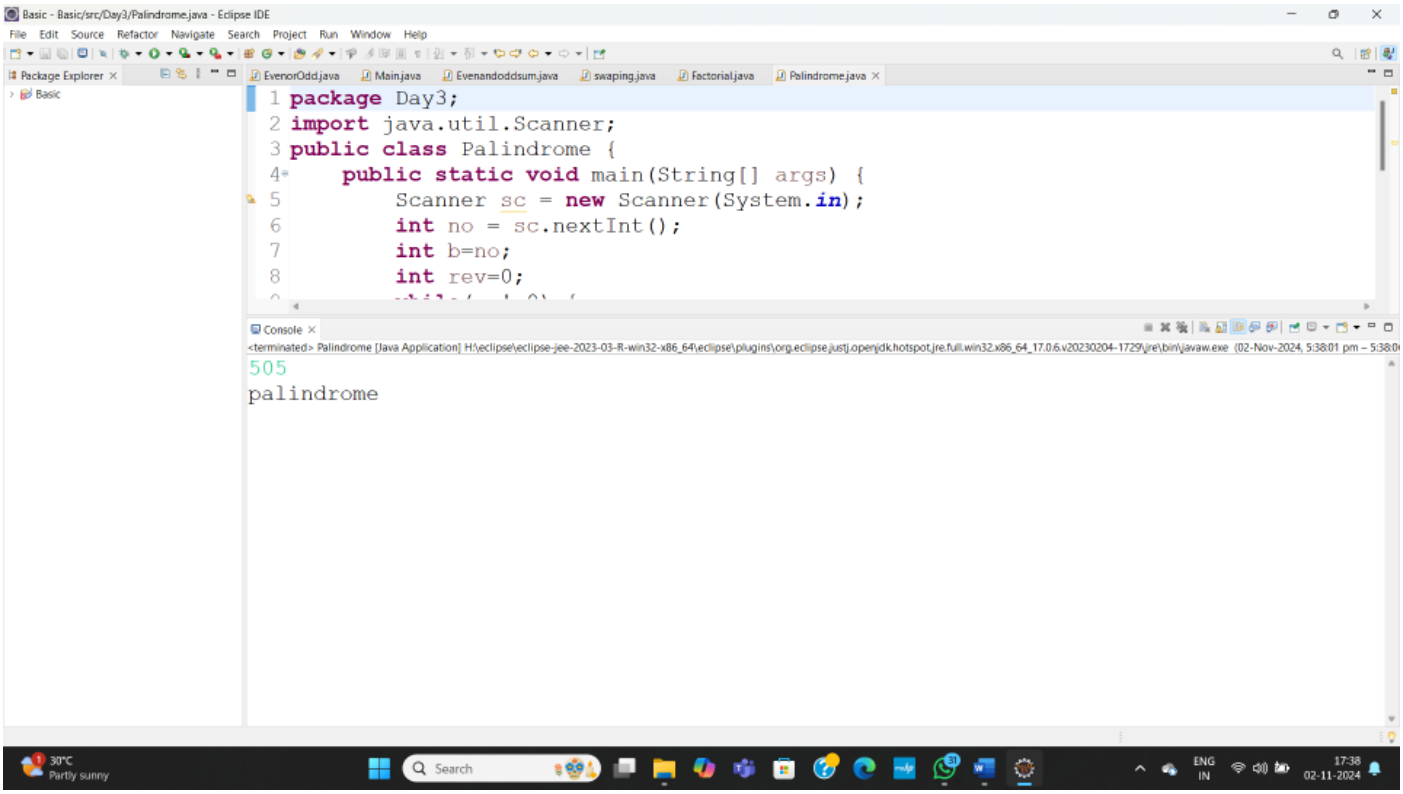


```java
package Assignment_1;
import java.util.Scanner;
public class sample {
public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    System.out.print("Enter the start of the range: ");
    int start = sc.nextInt();
    System.out.print("Enter the end of the range: ");
    int end = sc.nextInt();
```

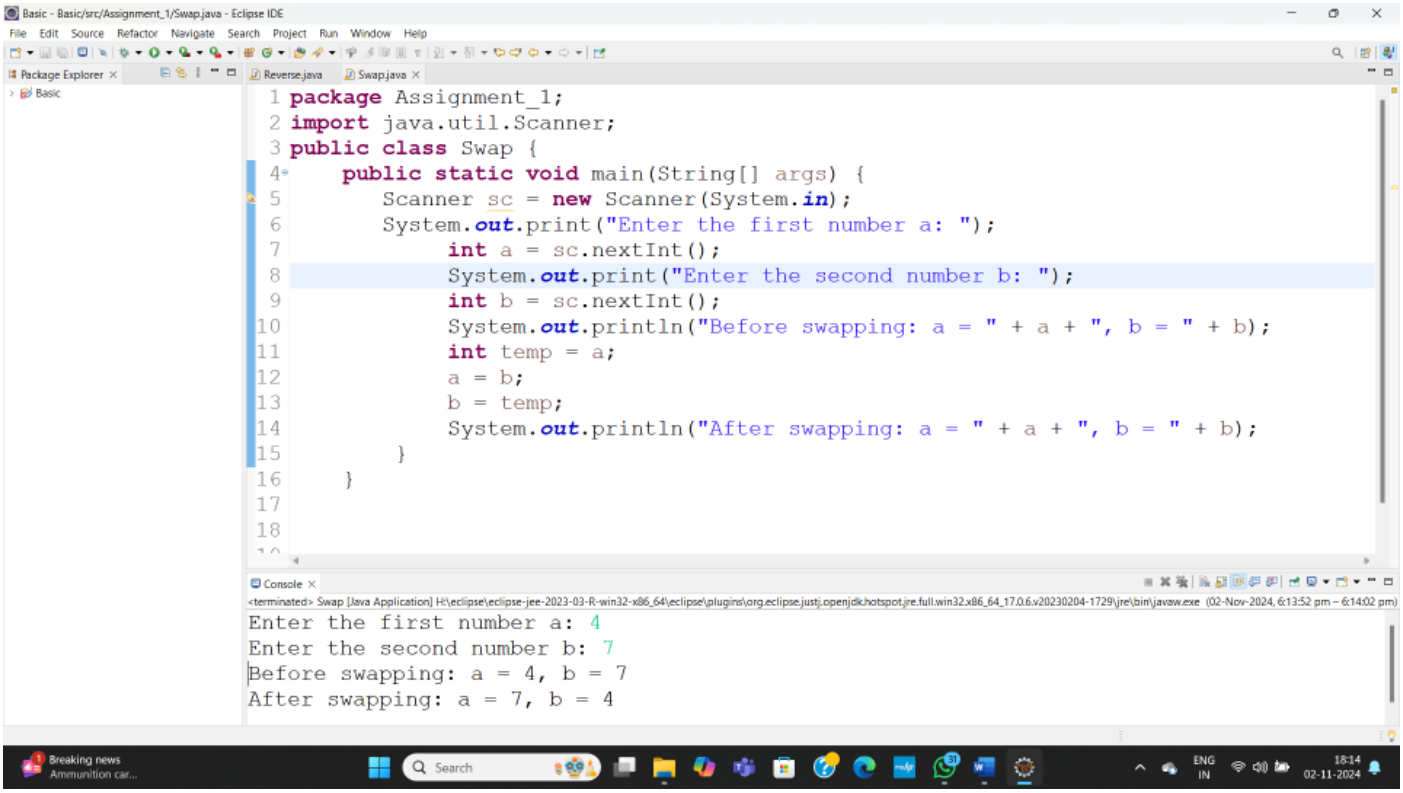
```
Enter the start of the range: 1
Enter the end of the range: 10
Even numbers in the range:
2 4 6 8 10
Odd numbers in the range:
1 3 5 7 9
```

To check the Given number is palindrome or not

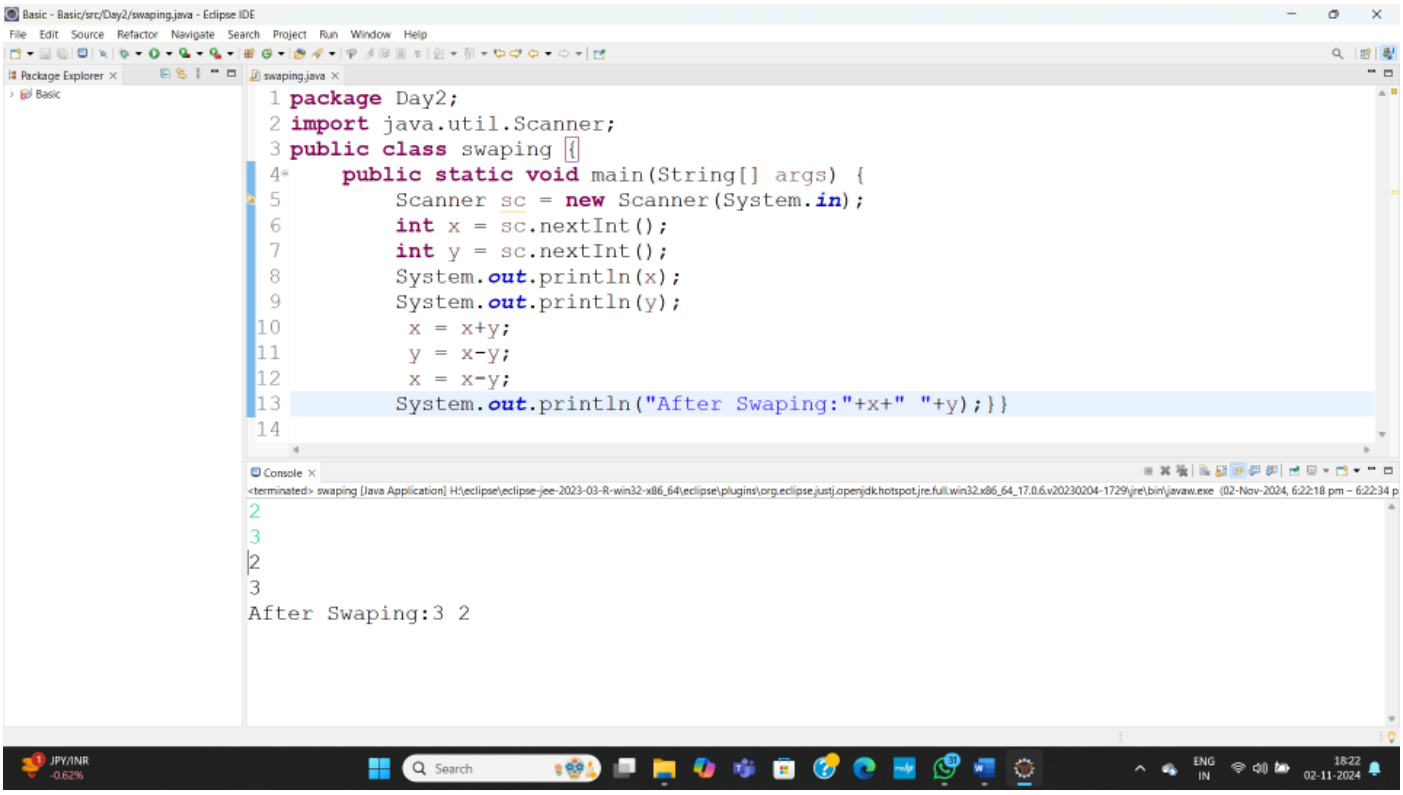




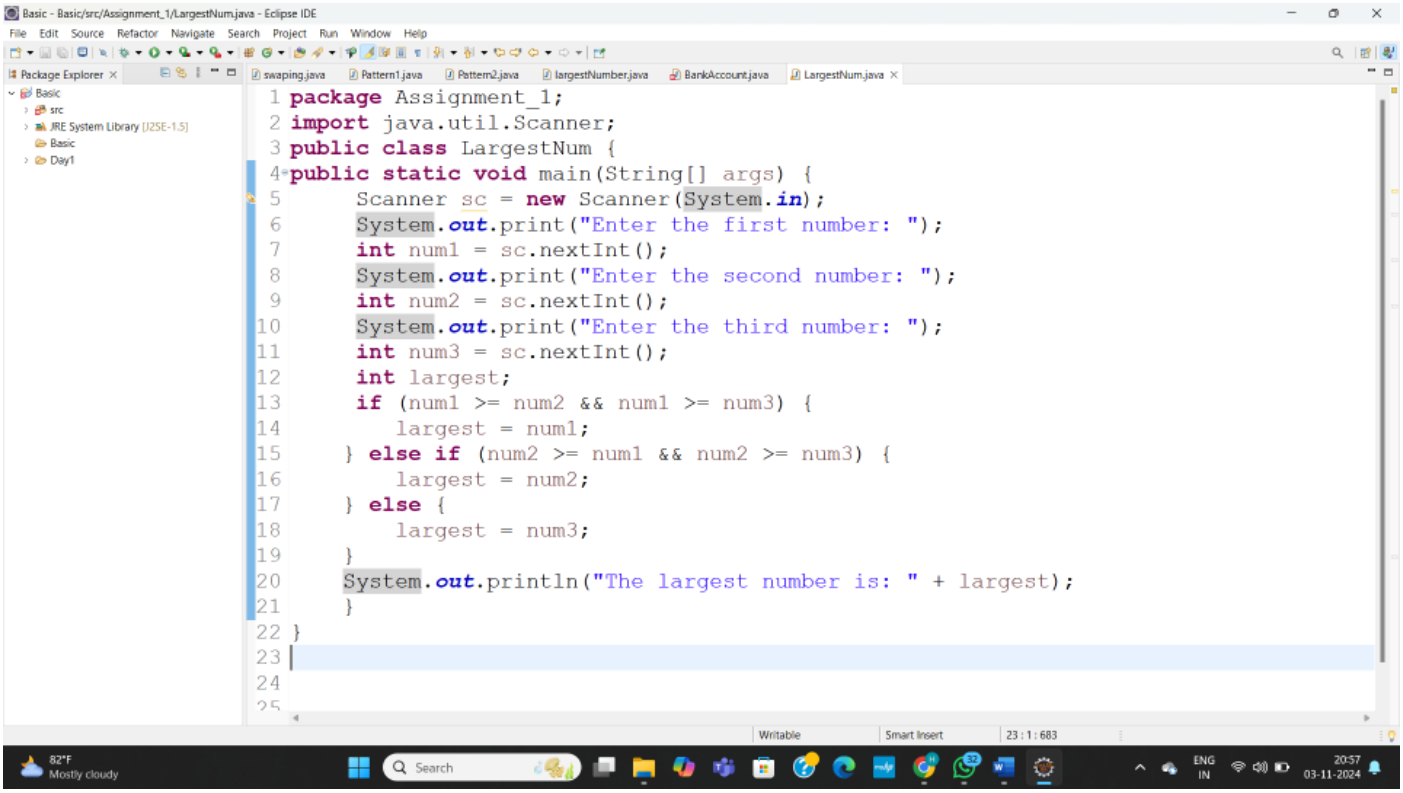
Swapping with Third Variable



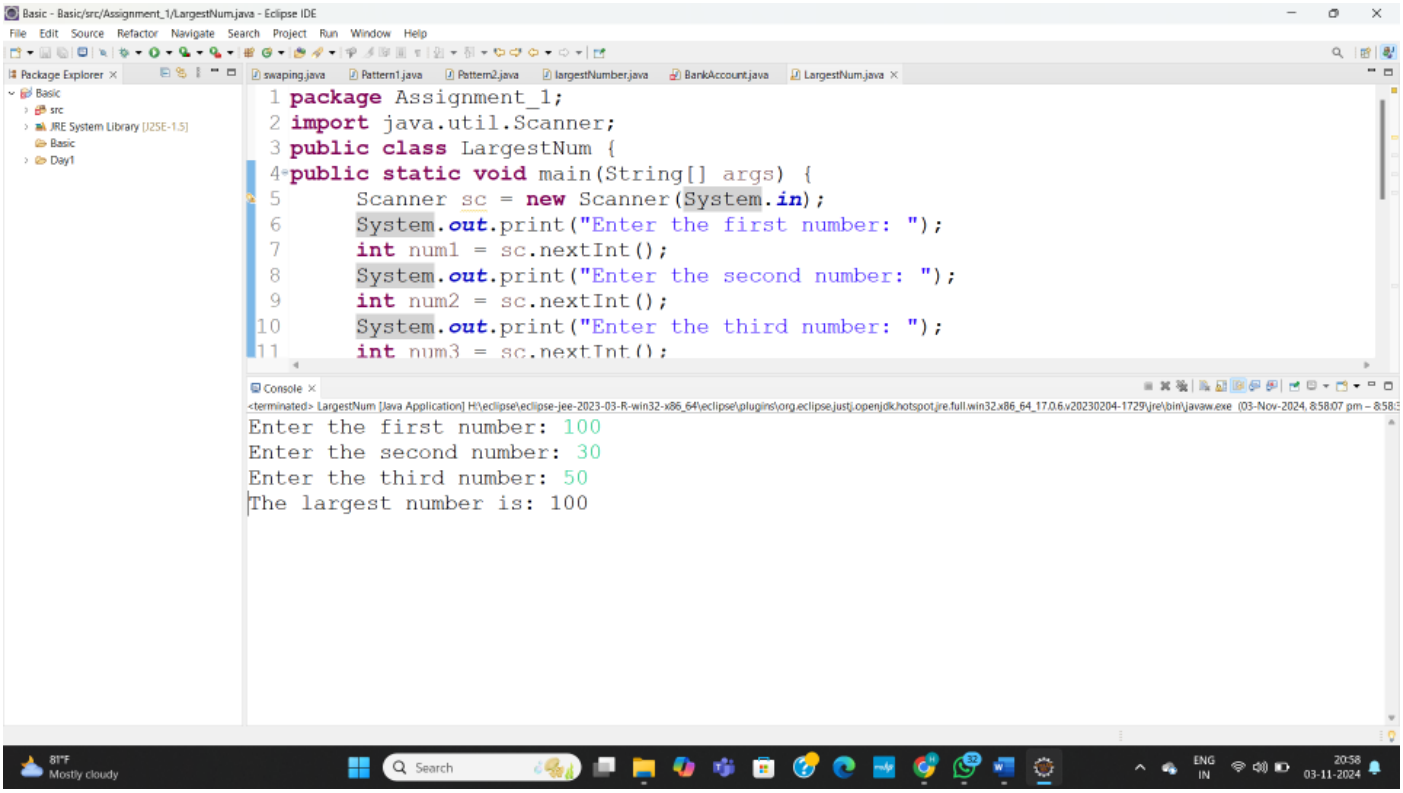
Swapping without Third variable



To Find the largest number in given numbers



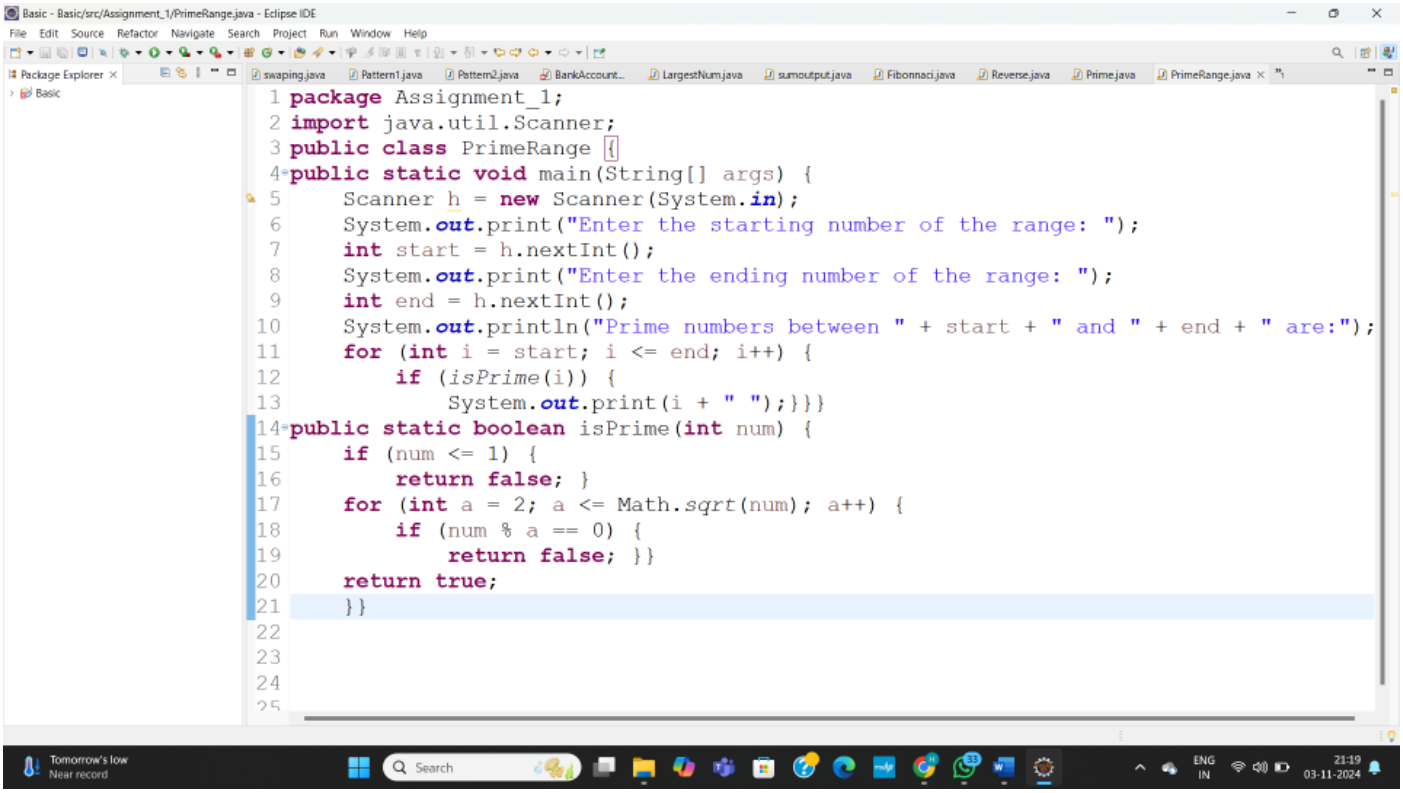
```java
package Assignment_1;
import java.util.Scanner;
public class LargestNum {
public static void main(String[] args) {
      Scanner sc = new Scanner(System.in);
      System.out.print("Enter the first number: ");
      int num1 = sc.nextInt();
      System.out.print("Enter the second number: ");
      int num2 = sc.nextInt();
      System.out.print("Enter the third number: ");
      int num3 = sc.nextInt();
      int largest;
      if (num1 >= num2 && num1 >= num3) {
         largest = num1;
      } else if (num2 >= num1 && num2 >= num3) {
         largest = num2;
      } else {
         largest = num3;
      }
      System.out.println("The largest number is: " + largest);
      }
}
```



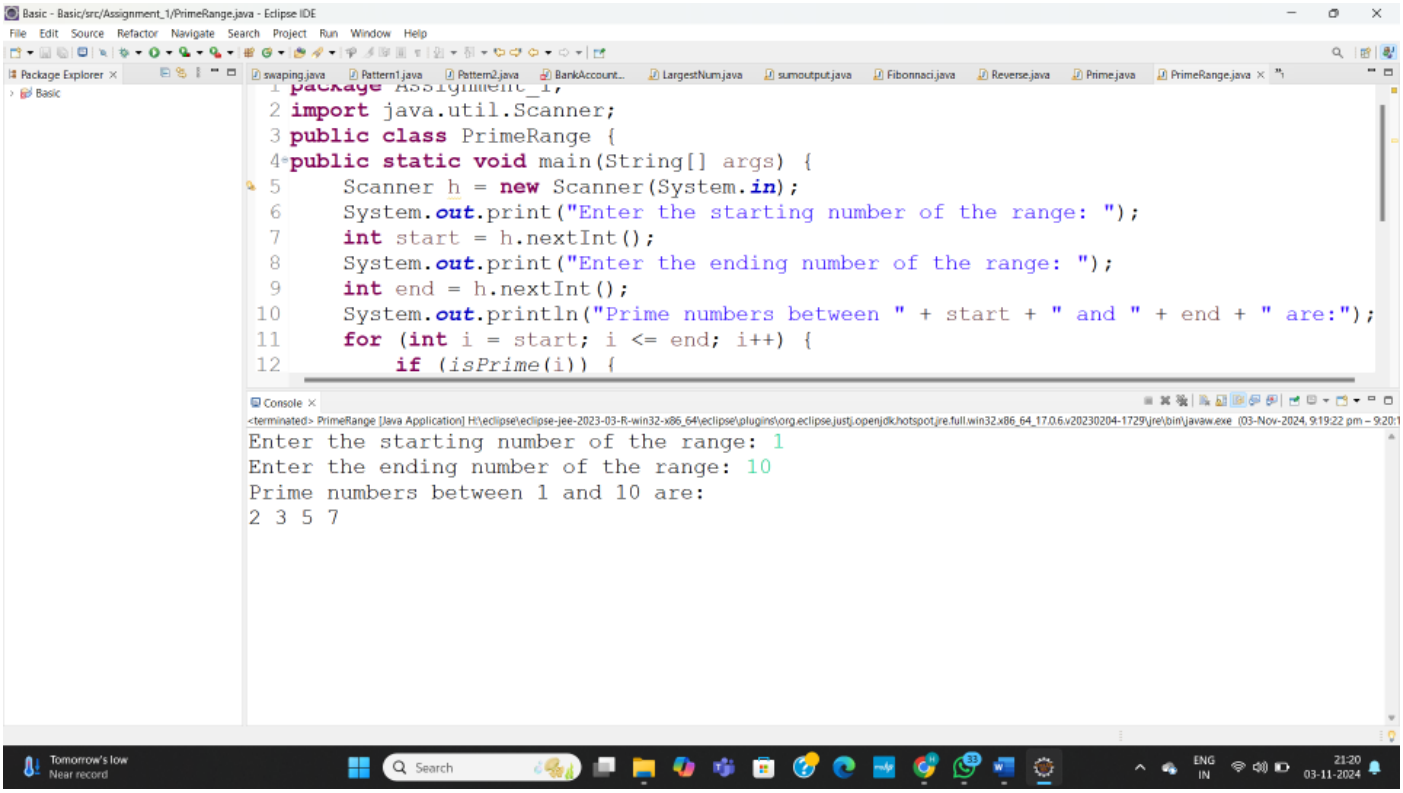
```java
package Assignment_1;
import java.util.Scanner;
public class LargestNum {
public static void main(String[] args) {
      Scanner sc = new Scanner(System.in);
      System.out.print("Enter the first number: ");
      int num1 = sc.nextInt();
      System.out.print("Enter the second number: ");
      int num2 = sc.nextInt();
      System.out.print("Enter the third number: ");
      int num3 = sc.nextInt();
```

```
Enter the first number: 100
Enter the second number: 30
Enter the third number: 50
The largest number is: 100
```

To Print prime Number in 1 to 10



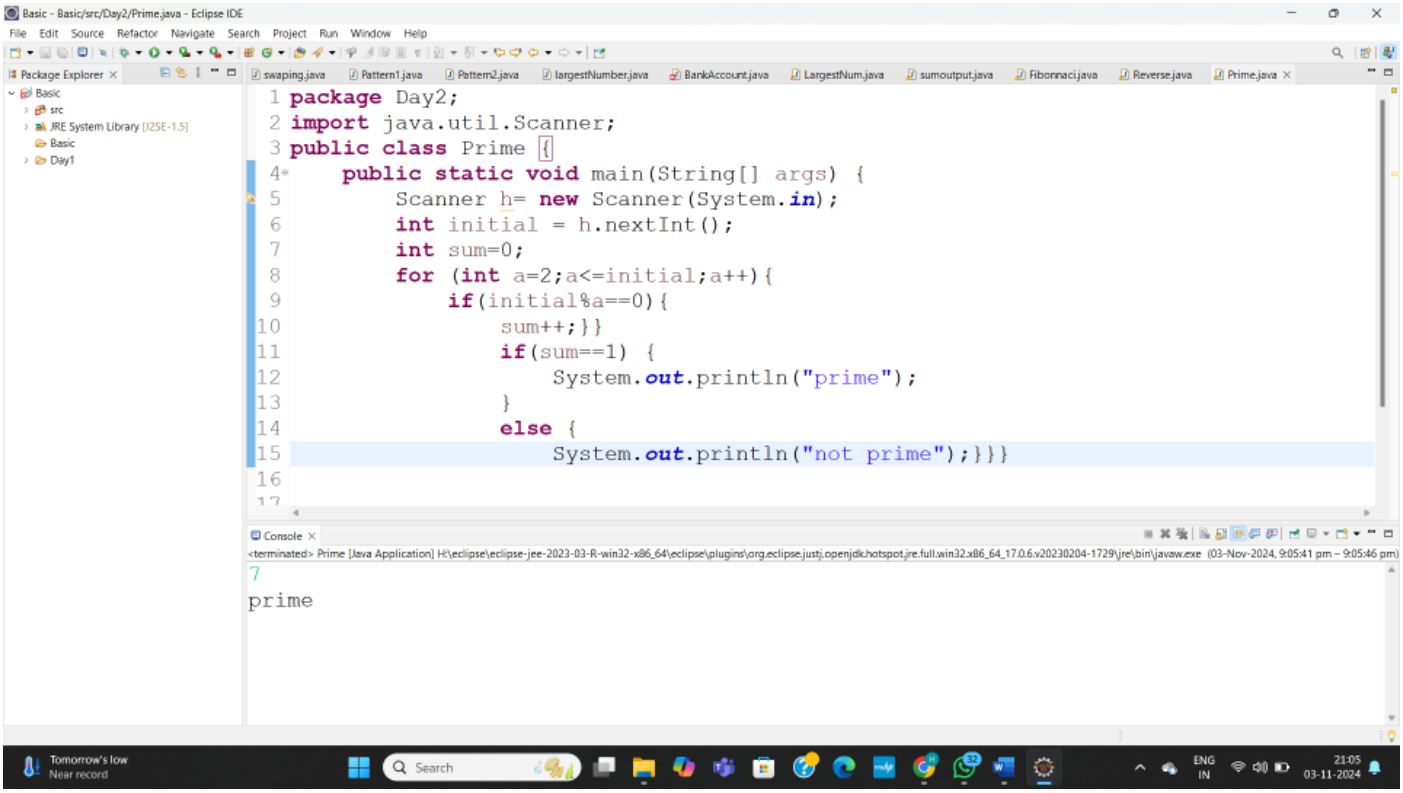
```java
package Assignment_1;
import java.util.Scanner;
public class PrimeRange {
public static void main(String[] args) {
    Scanner h = new Scanner(System.in);
    System.out.print("Enter the starting number of the range: ");
    int start = h.nextInt();
    System.out.print("Enter the ending number of the range: ");
    int end = h.nextInt();
    System.out.println("Prime numbers between " + start + " and " + end + " are:");
    for (int i = start; i <= end; i++) {
        if (isPrime(i)) {
            System.out.print(i + " ");}}}
public static boolean isPrime(int num) {
    if (num <= 1) {
        return false; }
    for (int a = 2; a <= Math.sqrt(num); a++) {
        if (num % a == 0) {
            return false; }}
    return true;
    }}
```



```java
import java.util.Scanner;
public class PrimeRange {
public static void main(String[] args) {
    Scanner h = new Scanner(System.in);
    System.out.print("Enter the starting number of the range: ");
    int start = h.nextInt();
    System.out.print("Enter the ending number of the range: ");
    int end = h.nextInt();
    System.out.println("Prime numbers between " + start + " and " + end + " are:");
    for (int i = start; i <= end; i++) {
        if (isPrime(i)) {
```

```
Enter the starting number of the range: 1
Enter the ending number of the range: 10
Prime numbers between 1 and 10 are:
2 3 5 7
```

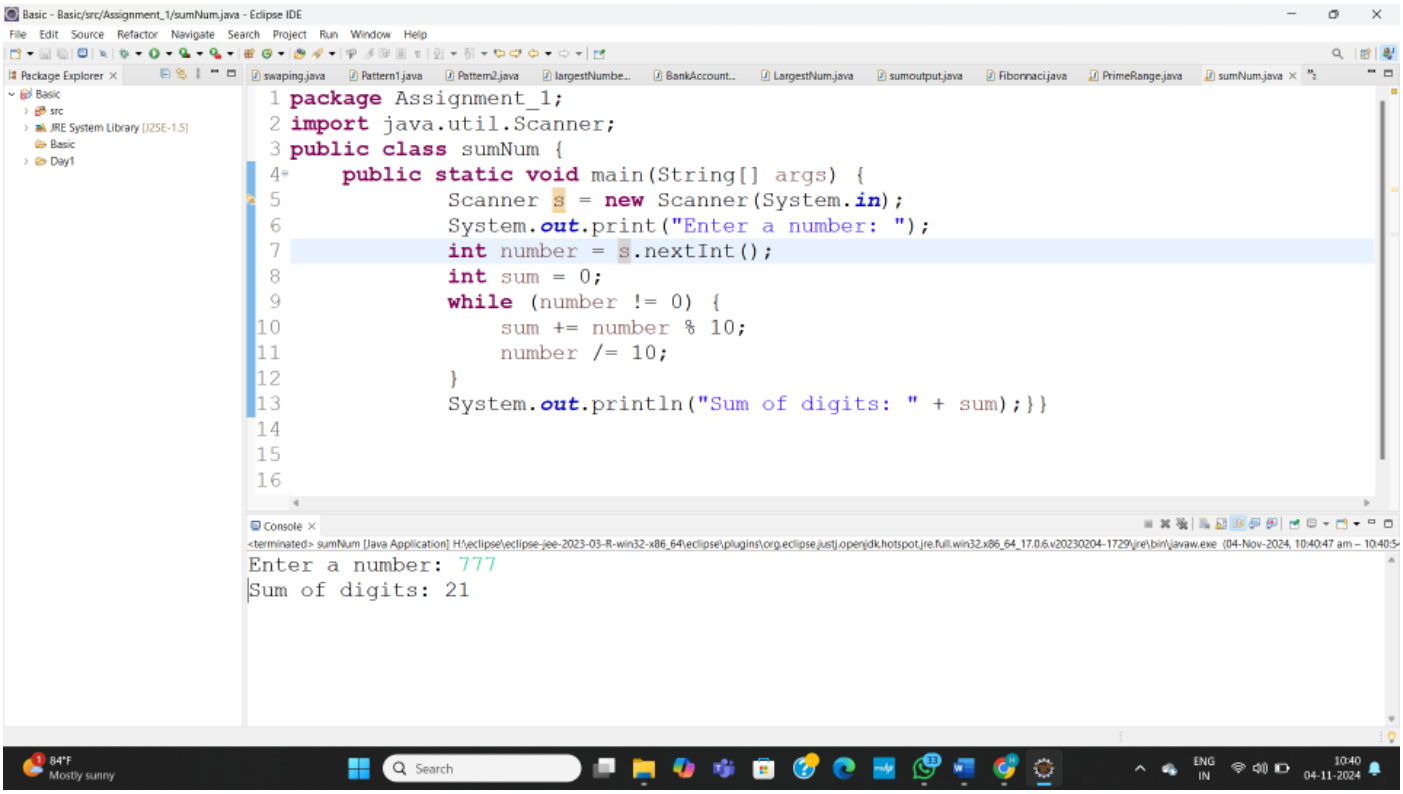
To check given Number is Prime or Not



```
package Day2;
import java.util.Scanner;
public class Prime {
    public static void main(String[] args) {
        Scanner h= new Scanner(System.in);
        int initial = h.nextInt();
        int sum=0;
        for (int a=2;a<=initial;a++){
            if(initial%a==0){
                sum++;}}
                if(sum==1) {
                    System.out.println("prime");
                }
                else {
                    System.out.println("not prime");}}}
```

```
7
prime
```

Sum of Given Numbers



```
package Assignment_1;
import java.util.Scanner;
public class sumNum {
    public static void main(String[] args) {
            Scanner s = new Scanner(System.in);
            System.out.print("Enter a number: ");
            int number = s.nextInt();
            int sum = 0;
            while (number != 0) {
                sum += number % 10;
                number /= 10;
            }
            System.out.println("Sum of digits: " + sum);}}
```

```
Enter a number: 777
Sum of digits: 21
```

Fibonacci Series