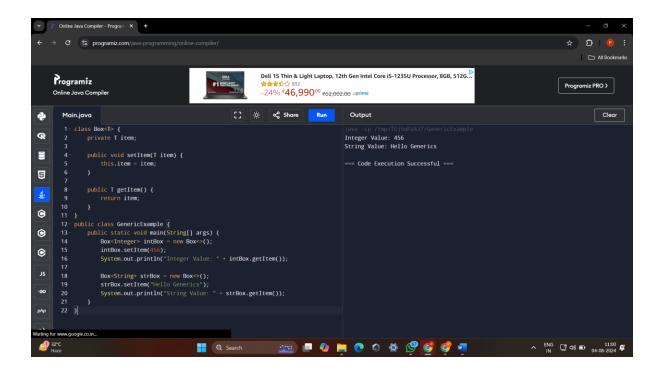
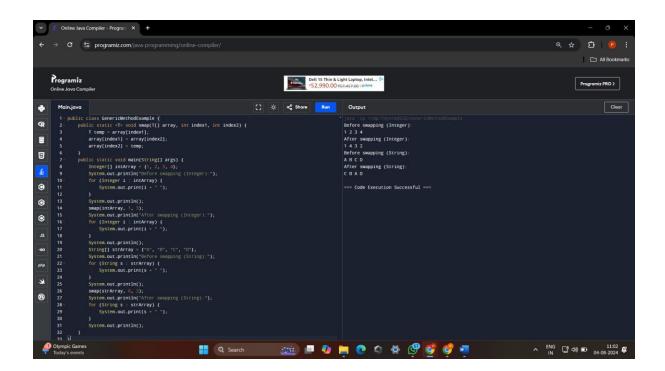
```
1. class Box<T> {
  private T item;
  public void setItem(T item) {
    this.item = item;
  }
  public T getItem() {
    return item;
  }
}
public class GenericExample {
  public static void main(String[] args) {
    Box<Integer> intBox = new Box<>();
    intBox.setItem(456);
    System.out.println("Integer Value: " + intBox.getItem());
    Box<String> strBox = new Box<>();
    strBox.setItem("Hello Generics");
    System.out.println("String Value: " + strBox.getItem());
  }
}
```



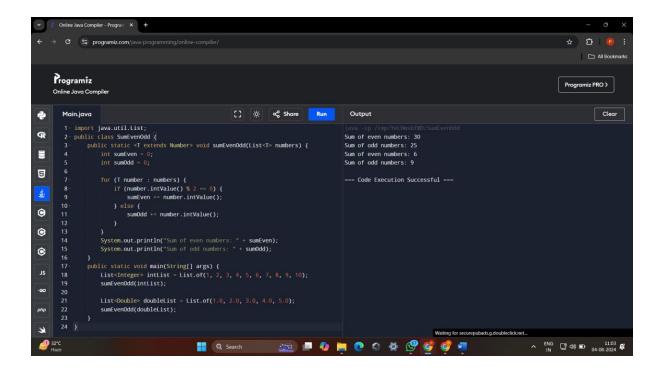
2. public class GenericMethodExample {

```
public static <T> void swap(T[] array, int index1, int index2) {
  T temp = array[index1];
  array[index1] = array[index2];
  array[index2] = temp;
}
public static void main(String[] args) {
  Integer[] intArray = \{1, 2, 3, 4\};
  System.out.println("Before swapping (Integer):");
  for (Integer i : intArray) {
    System.out.print(i + " ");
  }
  System.out.println();
  swap(intArray, 1, 3);
  System.out.println("After swapping (Integer):");
  for (Integer i : intArray) {
    System.out.print(i + " ");
  }
```

```
System.out.println();
String[] strArray = {"A", "B", "C", "D"};
System.out.println("Before swapping (String):");
for (String s : strArray) {
    System.out.print(s + " ");
}
System.out.println();
swap(strArray, 0, 2);
System.out.println("After swapping (String):");
for (String s : strArray) {
    System.out.print(s + " ");
}
System.out.println();
}
```



```
3. import java.util.List;
public class SumEvenOdd {
  public static <T extends Number> void sumEvenOdd(List<T> numbers) {
    int sumEven = 0;
    int sumOdd = 0;
    for (T number : numbers) {
      if (number.intValue() % 2 == 0) {
        sumEven += number.intValue();
      } else {
        sumOdd += number.intValue();
      }
    }
    System.out.println("Sum of even numbers: " + sumEven);
    System.out.println("Sum of odd numbers: " + sumOdd);
  }
  public static void main(String[] args) {
    List<Integer> intList = List.of(1, 2, 3, 4, 5, 6, 7, 8, 9, 10);
    sumEvenOdd(intList);
    List<Double> doubleList = List.of(1.0, 2.0, 3.0, 4.0, 5.0);
    sumEvenOdd(doubleList);
  }
}
```



```
4. import java.util.List;
public class FindElement {
   public static <T> int findFirstOccurrence(List<T> list, T target) {
      for (int i = 0; i < list.size(); i++) {
        if (list.get(i).equals(target)) {
           return i;
        }
    }
    return -1;
}

public static void main(String[] args) {
    List<String> stringList = List.of("apple", "banana", "cherry", "date");
    System.out.println("Index of 'banana': " + findFirstOccurrence(stringList, "banana"));
    System.out.println("Index of 'fig': " + findFirstOccurrence(stringList, "fig"));

List<Integer> intList = List.of(1, 2, 3, 4, 5);
```

```
System.out.println("Index of 3: " + findFirstOccurrence(intList, 3));
System.out.println("Index of 6: " + findFirstOccurrence(intList, 6));
}
```

