S.No: 41	Exp. Name: *Program to implement the concept of Generic classes.*	Date:

Aim:

Write a JAVA program to implement the concept of Generic and classes.

Source Code:

```
Main.java
```

```java
import java.util.Scanner;
class Test<T>{
    T obj;Test(T obj){
        this.obj=obj;
    }
    public T getObject() {
        return this.obj;
    }

}
class Main{
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a string: ");
        String str = sc.nextLine();
        Test<String> sObj= new Test<String>(str);
        System.out.println("The string is: "+sObj.getObject());
        System.out.print("Enter an integer: ");
        int a =sc.nextInt();
        Test<Integer> iObj = new Test<Integer>(a);
        System.out.println("The integer is: "+iObj.getObject());
    }

}
```

Execution Results - All test cases have succeeded!

```
        Test Case - 1

 User Output

Enter a string:  CodeTantra
The string is: CodeTantra 56
Enter an integer:  56
The integer is: 56
```

```
        Test Case - 2

 User Output

Enter a string:  Learn Coding
The string is: Learn Coding 37
Enter an integer:  37
The integer is: 37
```

Page No:

ID: 2001331530185

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S.No: 42	Exp. Name: *Program to implement the concept of Collection classes.*	Date:

Aim:

Write a JAVA program to implement the concept of Collection classes.

Source Code:

q132/AddingElements.java

```java
//JAVA program to implement the concept of  Collection classes.
//Read three array list values and add them
//Print values
package q132;
import java.util.Scanner;
import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
class AddingElements {
   public static void main(String[] args) {

   // create
   Scanner sc = new Scanner(System.in);
   List<String> items = new ArrayList<>();
   // Add
   System.out.print("Enter any three collections: ");
   String a = sc.nextLine();
   String b = sc.nextLine();
   String c = sc.nextLine();
   Collections.addAll(items,a,b,c);
   // print
   for (int i = 0; i < items.size(); i++) {
      System.out.print(items.get(i) + " ");
   }
   }
}


}
```

Execution Results - All test cases have succeeded!

Test Case - 1	
User Output	
Enter any three collections: apple	
ball	ball
cat	cat
apple ball cat	

Test Case - 2	
User Output	
Enter any three collections: dog	
elephant	elephant

Test Case - 2	
fox	fox
dog elephant fox	