

# Assignment – 8

Roll Number: 22BCE8692

Name of The Student: Ankush

Slot &Date: L25+L26

## Aim:

1. Write a Java program using Collections.
2. Write a Java Program using Generics.

## Code:

1:

```

import java.util.*;
public class Test14 {
    Run | Debug
    public static void main(String[] args) {
        ArrayList<String> list = new ArrayList<String>();
        list.add("Ravi");
        list.add("Vijay");
        list.add("Ravi");
        list.add("Ajay");
        Iterator itr = list.iterator();
        while (itr.hasNext()){
            System.out.println(itr.next());
        }
    }
}

```

```

import java.util.*;
public class Test14 {
    public static void main(String[] args) {
        ArrayList<String> list = new ArrayList<String>();
        list.add("Ravi");
        list.add("Vijay");
        list.add("Ravi");
        list.add("Ajay");
        Iterator itr = list.iterator();
        while (itr.hasNext()){
            System.out.println(itr.next());
        }
    }
}

```

2:

```
class Test<T1,T2>
```

```
{
```

```
    T1 a;
```

```
    T2 b;
```

```
    Test(T1 a,T2 b)
```

```
    {
```

```
        this.a=a;
```

```
        this.b=b;
```

```
    }
```

```
    public void print()
```

```
    {
```

```
        System.out.print(a+" ");
```

```
        System.out.println(b);
```

```
    }
```

```
}
```

```
public class Test15 {
```

```
    public static void main(String[] args) {
```

```
        Test<Integer,Integer>obj1 = new Test  
<Integer,Integer>(10,15);
```

```
        obj1.print();
```

```
        Test<Double,Integer>obj2 = new Test  
<Double,Integer>(10.6,15);
```

```
        obj2.print();
```

```
        Test<Float,String>obj3 = new Test  
<Float,String>(10.6f,"hello");
```

```
        obj3.print();
```

```
        Test<Character,String>obj4 = new Test
```

```
<Character,String>('C',"hello");  
    obj4.print();  
  
    }  
}
```

```
class Test<T1,T2>{  
    T1 a;  
    T2 b;  
    Test(T1 a,T2 b)  
    {  
        this.a=a;  
        this.b=b;  
    }  
    public void print()  
    {  
        System.out.print(a+" ");  
        System.out.println(b);  
    }  
}  
  
public class Test15 {  
    Run | Debug  
    public static void main(String[] args) {  
        Test<Integer,Integer>obj1 = new Test <Integer,Integer>(10,15);  
        obj1.print();  
        Test<Double,Integer>obj2 = new Test <Double,Integer>(10.6,15);  
        obj2.print();  
        Test<Float,String>obj3 = new Test <Float,String>(10.6f,"hello");  
        obj3.print();  
        Test<Character,String>obj4 = new Test <Character,String>('C',"hello");  
        obj4.print();  
    }  
}
```

## Output:

1:

```
Caused by: java.lang.ClassNotFoundException: Test14
PS C:\Users\lenovo\OneDrive\Desktop\Practice> javac Test14.java
PS C:\Users\lenovo\OneDrive\Desktop\Practice> java Test14
Ravi
Vijay
Ravi
Ajay
```

2:

```
Caused by: java.lang.ClassNotFoundException: Test15
PS C:\Users\lenovo\OneDrive\Desktop\Practice> javac Test15.java
PS C:\Users\lenovo\OneDrive\Desktop\Practice> java Test15
10 15
10.6 15
10.6 hello
C hello
PS C:\Users\lenovo\OneDrive\Desktop\Practice>
```

END