

27/11/20

Lab-7



Page No: 32

Date: / /

Q7

WAP for generics

```
import java.util.*;
```

```
class list < a, b > {
```

```
    a x;
```

```
    b y;
```

```
    list ( a e, b f ) {
```

```
        x = e;
```

```
        y = f;
```

```
    }
```

```
    Scanner in = new Scanner (System.in);
```

```
    void print () {
```

```
        System.out.printf (" First object is  
        of type %s and is : %n", (x.get  
        Class().getName()));
```

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

```
        System.out.printf (" Second element  
        is of type %s and is : %n", (y.get  
        Class().getName()));
```

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

```
    }
```

```
}
```

```
class Series {
```

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

```
        list < Integer, Double > l1 = new list <
```

```
        Integer, Double > (100, 77.77);
```



```
list < Double, String > l2 = new list  
    < Double, String > (55.55, "Hello!");  
system.out.println("1st object :");  
l1.print();  
system.out.println("1st 2nd obj :");  
l2.print();  
}
```

3

O/f →

1<sup>st</sup> obj :

1<sup>st</sup> element is of java.lang.Integer and is 100  
2<sup>nd</sup> element is of java.lang.Double and is 77.7

2<sup>nd</sup> obj :

1<sup>st</sup> element is of java.lang.Double & is 55.55  
2<sup>nd</sup> element is of java.lang.String & is "Hello"

Algorithm →

- ① Create two diff lists with diff. objects.
- ② Pass the values of objects via constructor
- ③ In diff class take the values of objects
- ④ Print the values & their respective java type
- ⑤ End