

Week 10
Lab Program 7 & 8

Ans.

```
import java.util.Scanner;
```

```
class Age < T, S > {
```

```
    T ob1;
```

```
    S ob2;
```

```
    Age ( T age, S string ) {
```

```
        ob1 = age;
```

```
        ob2 = string;
```

```
    }
```

```
    T get - int () {
```

```
        return ob1;
```

```
    }
```

```
    S get - string () {
```

```
        return ob2;
```

```
    }
```

```
}
```

```
class Testj {
```

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

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

```
        System.out.println ("Person 1:- Enter your current age:");
```

```
        int cur_age = sc.nextInt ();
```

```
        Age < Integer, String > a = new Age < Integer, String >
```

```
            ( cur_age, " is your current age" );
```

```
        int i = a.get - int ();
```

```
        String str = a.get - string ();
```

```
        System.out.println (i + str);
```

```
        System.out.println ("Person 2:- Enter your  
current age:");
```

```
int curAge = sc.nextInt();  
Age < Integer, String > a1 = Age < Integer, String > (curAge, "is  
your current age = ");  
int i1 = a1.getId();  
String str1 = a1.getString();  
System.out.println(i1 + str1);
```

3

3

Ans

```
import java.util.Scanner;
class my_excpt extends Exception {
    String detail;
    my_excpt (String string K
               detail = string;
    }
    public String toString () {
        return detail;
    }
}
```

```
class father {
    Scanner sc = new Scanner (System.in);
    int f_age;
    father () throws my_excpt {
        System.out.println ("Enter the age of father:");
        f_age = sc.nextInt ();
        if (f_age < 0)
            throw new my_excpt ("Wrong age!");
        else
            System.out.println ("Father's age: " + f_age);
    }
}
```

```
class son extends father {
    int s_age;
    son () throws my_excpt {
        System.out.println ("Enter the age of son:");
        s_age = sc.nextInt ();
        if (s_age > f_age)
            throw new my_excpt ("Father's age cannot be
            less than son's age:");
        else
    }
```

```
System.out.println("Son's age: " + age);
```

```
}
```

```
}
```

```
class Test {
```

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

```
try {
```

```
    Son s = new Son(10);
```

```
} catch (myException e) {
```

```
    System.out.println("EXCEPTION: " + e);
```

```
}
```

```
}
```

```
}
```