

WEEK10

LAB program 7:

Code:

```
class A<T,Y>{
    T x;

    Y w;

    A(T x,Y w)
    {
        this.x=x;

        this.w=w;
    }

    void disp(){

        System.out.println("Variable1 value: "+x);

        System.out.println("Variable1 type :"+x.getClass().getName());

        System.out.println("Variable2 value: "+w);

        System.out.println("Variable2 type :"+w.getClass().getName());

    }
}

public class genMain{

    public static void main(String args[])

    {

        A<Integer,String> obj1= new A<Integer,String>(10,"ABCD");

        obj1.disp();

        A<Boolean,String> obj2= new A<Boolean,String>(true,"MNOP");

        obj2.disp();
```

```
}  
  
}
```

Output:

```
C:\Users\misaf\Desktop\OOJ-LAB\Week10>java genMain  
Variable1 value: 10  
Variable1 type :java.lang.Integer  
Variable2 value: ABCD  
Variable2 type :java.lang.String  
Variable1 value: true  
Variable1 type :java.lang.Boolean  
Variable2 value: MNOP  
Variable2 type :java.lang.String
```

LaB program 8:

Code:

```
import java.util.Scanner;  
  
class WrongAge extends Exception  
{  
    String err_msg;  
    WrongAge(String str)  
    {  
        err_msg=str;  
    }  
    public String toString()  
    {  
        return ("Exception Occurred: "+err_msg) ;  
    }  
}
```

```
}

class Father
{
    int fage;
}

class Son extends Father{
    int sage;

    Son(int son_age,int f_age)
    {
        this.sage=son_age;
        super.fage=f_age;

        try
        {
            if(this.sage>=super.fage)
            {
                throw new WrongAge("Age of Son can't be more than or equal to that of father!!");
            }
        }
        catch(WrongAge exp)
        {
            System.out.println(exp);
        }
    }

}

public class exMain{
```

```
public static void main(String args[])  
{  
    int fage,sage;  
    Scanner sc=new Scanner(System.in);  
    System.out.println("Enter father's age:");  
    fage=sc.nextInt();  
    System.out.println("Enter Son's age:");  
    sage=sc.nextInt();  
    Father f=new Father();  
    Son s=new Son(sage,fage);  
}  
}
```

Output:

```
C:\Users\misaf\Desktop\OOJ-LAB\Week10>java exMain  
Enter father's age:  
50  
Enter Son's age:  
60  
S age:60 F age:50  
Exception Occurred: Age of Son can't be more than or equal to that of father!!
```