```
Generic Program:
```

```
import java.io.*;
import java.lang.*;
import java.util.*;
class gen<T>
{
        T ob;
        gen(T o)
        {
                ob=o;
       }
       T getob()
        {
                return ob;
        }
       void showtype()
        {
               System.out.println("Type of T is " + ob.getClass().getName());
       }
}
class generic
{
       public static void main(String[] args)
        {
                String n;
                Scanner sc=new Scanner(System.in);
```

```
System.out.println("Enter the Integer Number to Be Displayed Using the generic
style");
               n=sc.next();
               gen<Integer> ob1=new gen<Integer>(Integer.parseInt(n));
               ob1.showtype();
               int val=ob1.getob();
               System.out.println("Value is: " + val);
               System.out.println();
               System.out.println("Enter the String to Be Displayed Using the generic style");
               n=sc.next();
               gen<String> ob2=new gen<String>(n);
               ob2.showtype();
               String x=ob2.getob();
               System.out.println("Value : " + x);
               System.out.println();
               System.out.println("Enter the Double Number to Be Displayed Using the generic
style");
               n=sc.next();
               gen<Double> ob3=new gen<Double>(Double.parseDouble(n));
               ob3.showtype();
               double ans=ob3.getob();
               System.out.println("Value : " + ans);
       }
}
```

OUTPUT:

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EXCEPTION PROGRAM:

```
import java.util.*;
import java.io.*;
import java.lang.*;

class Wrongage extends Exception
{
    public int a;
    Wrongage(int x)
    {
        a=x;
    }

    public String toString()
    {
```

```
return "Wrongage[" + a + "]";
       }
}
class father
{
        public int age;
       father(int a)
       {
               age=a;
       }
       public void check() throws Wrongage
       {
               System.out.println("Checking the age of the father ");
               System.out.println();
               if(age<0)
                       throw new Wrongage(age);
               System.out.println("Correct Age");
       }
}
class son extends father
{
        public int son_age;
       son(int fa_age,int i)
       {
               super(fa_age);
               son_age=i;
       }
       public void check() throws Wrongage
       {
               super.check();
```

```
System.out.println();
               System.out.println("Checking the age of the Son ");
               System.out.println();
               if(son_age<0||son_age>age)
                       throw new Wrongage(son_age);
               System.out.println("Correct Age");
       }
}
public class errortest
{
        public static void main(String[] args)
       {
               int so_age,father_age;
               Scanner sc=new Scanner(System.in);
               System.out.println("Enter the Age Of The Father ");
               father_age=sc.nextInt();
               System.out.println("Enter the age of the son ");
               so_age=sc.nextInt();
               son s=new son(father_age,so_age);
               try
               {
                       s.check();
               }catch(Wrongage w)
               {
                       System.out.println("Exception: " + w);
               }
       }
}
```

OUTPUT:

C. Usser's UhreeNari Kulkarni lõneõrivo (Desktop) LAB SUBJECT/JAVALAB) javac errortest. java
C:\Users\Shreehari Kulkarni\OneDrive\Desktop\LAB SUBJECT\JAVALAB>java errortest Enter the Age Of The Father
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OP Checking the age of the father
Correct Age Checking the age of the Son
Exception: Wrongage[80]
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