

LAB PROGRAM 8

```
import java.util.*;
class WrongAge extends Exception
{
    int f,s;
    WrongAge(int fAge, int sAge)
    {
        f=fAge;
        s=sAge;
    }
    public String toString()
    {
        return "Enter correct ages as Father's age can't be less than or equal to Son's age.";
    }
}
class NegativeAge extends Exception
{
    int x;
    NegativeAge(int fAge)
    {
        x=fAge;
    }
    public String toString()
    {
        return "Age can't be negative.";
    }
}
class Father
{
    int fAge;
    Scanner in = new Scanner(System.in);
    Father()throws NegativeAge
    {
        System.out.println("Enter Father's age:");
        fAge=in.nextInt();
        if(fAge<0)
        {
            throw new NegativeAge(fAge);
        }
    }
}
```

```

class Son extends Father
{
    int sAge;
    Scanner in=new Scanner(System.in);
    Son() throws NegativeAge,WrongAge
    {
        super();
        System.out.println("Enter Son's age:");
        sAge=in.nextInt();
        if(sAge<0)
        {
            throw new NegativeAge(sAge);
        }
        if(sAge>=fAge)
        {
            throw new WrongAge(fAge,sAge);
        }
    }
}
class exception_handling
{
    public static void main(String args[])
    {
        try
        {
            Son s =new Son();
        }
        catch(NegativeAge n)
        {
            System.out.println("Exception: "+n);
        }
        catch(WrongAge w)
        {
            System.out.println("Exception: "+w);
        }
    }
}

```

```
C:\Users\shivani\Desktop\JA>java exception_handling
Enter Father's age:
45
Enter Son's age:
12

C:\Users\shivani\Desktop\JA>java exception_handling
Enter Father's age:
-5
Exception: Age can't be negative.

C:\Users\shivani\Desktop\JA>java exception_handlimg
Error: Could not find or load main class exception_handlimg

C:\Users\shivani\Desktop\JA>java exception_handling
Enter Father's age:
45
Enter Son's age:
-5
Exception: Age can't be negative.

C:\Users\shivani\Desktop\JA>java exception_handling
Enter Father's age:
45
Enter Son's age:
55
Exception: Enter correct ages as Father's age can't be less than or equal to Son's age.

C:\Users\shivani\Desktop\JA>_
```