

## OOJ LAB PROGRAM 8

8.

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

```
class AgeException extends Exception
```

```
{  
    public String toString()  
    {  
        return "Age of the Father Cannot be lesser than the age of the Son";  
    }  
}
```

```
class Father
```

```
{  
    public Scanner ss=new Scanner(System.in);  
    int f_age;  
    Father()  
    {  
        System.out.println("Enter the Age of the Father: ");  
        f_age=ss.nextInt();  
    }  
}
```

```
class Son extends Father
```

```
{  
    int s_age;  
    Son()  
    {  
        System.out.println("Enter the Age of the Son: ");  
        s_age=ss.nextInt();  
    }  
}
```

```
class FamilyMain
```

```
{  
    static void WrongAge(int fage, int sage) throws AgeException  
    {  
        if(fage < sage)  
        {  
            throw new AgeException();  
        }  
        System.out.println("There were no other problems arised during execution");  
    }  
}
```

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

```

{
    Son sn= new Son();
    try
    {
        WrongAge(sn.f_age,sn.s_age);
    }
    catch(AgeException e)
    {
        System.out.println("An Exception popped up: "+ e);
    }
}
}

```

OUTPUT:-

```

C:\Users\mithilraj>cd C:\Users\mithilraj\Desktop\java
C:\Users\mithilraj\Desktop\java>javac lab8.java
C:\Users\mithilraj\Desktop\java>java FamilyMain
Enter the Age of the Father:
40
Enter the Age of the Son:
18
There were no other problems arised during execution
C:\Users\mithilraj\Desktop\java>cd C:\Users\mithilraj\Desktop\java
C:\Users\mithilraj\Desktop\java>javac lab8.java
C:\Users\mithilraj\Desktop\java>java FamilyMain
Enter the Age of the Father:
37
Enter the Age of the Son:
39
An Exception popped up: Age of the Father Cannot be lesser than the age of the Son
C:\Users\mithilraj\Desktop\java>

```

EXECUTION:-

```
C:\Users\mithiraj\Desktop\java\lab8.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
lab7.java lab8.java
1 import java.util.*;
2
3 class AgeException extends Exception
4 {
5     public String toString()
6     {
7         return "Age of the Father Cannot be lesser than the age of the Son";
8     }
9 }
10 class Father
11 {
12     public Scanner ss=new Scanner(System.in);
13     int f_age;
14     Father()
15     {
16         System.out.println("Enter the Age of the Father: ");
17         f_age=ss.nextInt();
18     }
19 }
20
21 class Son extends Father
22 {
23     int s_age;
24     Son()
25     {
26         System.out.println("Enter the Age of the Son: ");
27         s_age=ss.nextInt();
28     }
29 }
30
31 class FamilyMain
32 {
33     static void WrongAge(int fage, int sage) throws AgeException
34     {
35         if(fage < sage)
36         {
37             throw new AgeException();
38         }
39         System.out.println("There were no other problems arised during execution");
40     }
41
42     public static void main (String args[])
43     {
44         Son sn= new Son();
45     }
46 }
```

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```
C:\Users\mithiraj\Desktop\java\lab8.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
lab7.java lab8.java
11 {
12     public Scanner ss=new Scanner(System.in);
13     int f_age;
14     Father()
15     {
16         System.out.println("Enter the Age of the Father: ");
17         f_age=ss.nextInt();
18     }
19 }
20
21 class Son extends Father
22 {
23     int s_age;
24     Son()
25     {
26         System.out.println("Enter the Age of the Son: ");
27         s_age=ss.nextInt();
28     }
29 }
30
31 class FamilyMain
32 {
33     static void WrongAge(int fage, int sage) throws AgeException
34     {
35         if(fage < sage)
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37             throw new AgeException();
38         }
39         System.out.println("There were no other problems arised during execution");
40     }
41
42     public static void main (String args[])
43     {
44         Son sn= new Son();
45         try
46         {
47             WrongAge(sn.f_age,sn.s_age);
48         }
49         catch (AgeException e)
50         {
51             System.out.println("An Exception popped up: "+ e);
52         }
53     }
54 }
```

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