

LAB-8

```
import java.util.*;
class WrongAge extends Exception
{
    private int a1,b1;
    WrongAge(int a,int b)
    {
        a1=a;
        b1=b;
    }
    public String toString()
    {
        if(a1<0||b1<0)
            return "input age cannot be less than 0";
        else if(a1<=b1)
            return "father age cannot be less than or equal to
            son age ";
        return "";
    }
}
class Father
{
    int fage,sage;
    Scanner sc=new Scanner(System.in);
    Father() throws WrongAge
    {
        System.out.println("enter the age of father");
        fage=sc.nextInt();
```

```
System.out.println("enter the age of son");
sage=sc.nextInt();
if(fage<0||sage<0)
throw new WrongAge(fage,sage);
}
}
class Son extends Father
{Son() throws WrongAge
{
if(sage>=fage)
throw new WrongAge(fage,sage);
else
System.out.println("proper ages have been
entered");
}
}
class Main2
{
public static void main(String args[])
{
try
{
Son s=new Son();
}catch(WrongAge e){
System.out.println("error:"+e);
}
}
}
```

```
E:\ooj lab\LAB 8>javac lab8.java
```

```
E:\ooj lab\LAB 8>java lab8
```

```
Enter the Father's age:54
```

```
Enter the Son's age:18
```

```
Father's age:54
```

```
Son's age:18
```

```
E:\ooj lab\LAB 8>java lab8
```

```
Enter the Father's age:-12
```

```
Exception :-12 the entered age does not match the category
```

```
E:\ooj lab\LAB 8>java lab8
```

```
Enter the Father's age:28
```

```
Enter the Son's age:32
```

```
Exception :32 the entered age does not match the category
```

```
E:\ooj lab\LAB 8>
```