

Lab 8

```
import java.util.Scanner;
```

```
class WrongAge extends Exception {
```

```
    String str1;
```

```
    WrongAge(String str2)
```

```
    {
```

```
        str1 = str2;
```

```
    }
```

```
    public String toString()
```

```
    {
```

```
        return ("An Exception has occurred:" + str1);
```

```
    }
```

```
}
```

```
class Father
```

```
{
```

```
    static int fatherAge;
```

```
    Father()
```

```
    { System.out.println("<----->");
```

```
    Father(int x)
```

```
    {
```

```
        fatherAge = x;
```

```
try
```

```
{
```

```
    if (fatherAge <= 0)
```

```
        throw new WrongAge("age can't be less than 0");
```

```
    }
```

```
catch (WrongAge e)
```

```
{
```

```
    System.out.println(e);
```

```
}
```

```
}
```

```
}
```

Date _____
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```
class son extends father
```

```
{  
    static int sonAge;
```

```
    son (int y)
```

```
    {
```

```
        sonAge = y;
```

```
        try {
```

```
            if (sonAge >= fatherAge)
```

```
                throw new Wrongage ("Son's Age can't  
                be greater than father's age");
```

```
            }
```

```
        catch (Wrongage e)
```

```
        {
```

```
            system.out.println(e);
```

```
        }
```

```
    }
```

```
}
```

```
class main {
```

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

```
    {  
        Scanner sc = new Scanner (System.in);
```

```
        System.out.println ("Enter the Father's age");
```

```
        int age1 = sc.nextInt();
```

```
        new father (age1);
```

```
        System.out.println ("Enter the son's age");
```

```
        int age2 = sc.nextInt();
```

```
        new son (age2);
```

```
        System.out.println ("In Father's age : " + father.fatherAge +  
        " & Son's age : " + son.sonAge);
```

```
    }
```

```
}
```

```
import java.util.Scanner;
class wrongAge extends Exception {
String str1;
wrongAge(String str2){
str1=str2;
}

    public String toString()
    {
return      ("An exception has occurred: "+str1);
    }
}
```

```
class father{
static int fatherAge;

father (){ System.out.println("<----->");}
father(int x){
    fatherAge=x;

    try{
    if (fatherAge<=0)
    throw new wrongAge("age cant be less than zero ");
    }
    catch(wrongAge e){
```



```
catch(wrongAge e){  
    System.out.println(e);  
}
```

```
}  
}
```

```
class son extends father{  
    static int sonAge;
```

```
        son(int y)
```

```
{
```

```
    sonAge=y;
```

```
        try{
```

```
            if(sonAge>=fatherAge)
```

```
                throw new wrongAge("Son's Age cant be  
greater than Father's Age");
```

```
        }
```

```
        catch(wrongAge e) {
```

```
            System.out.println(e);
```

```
        }
```

```
    }
```

```
}
```

```
class main {
```

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

```
class main {  
public static void main(String args[]){  
Scanner sc=new Scanner (System.in);  
System.out.println("Enter the father's Age");  
int age1=sc.nextInt();  
new father(age1);  
  
System.out.println("Enter the Son's Age");  
int age2=sc.nextInt();  
new son(age2);  
System.out.println("\n Father's age:>" + father.fatherAge + "\t Son's age:> "+  
son.sonAge );  
  
}  
}
```

```
C:\Users\cw\Desktop\00JLAB\Lab8 (week10)>java main
```

```
Enter the father's Age
```

```
45
```

```
Enter the Son's Age
```

```
33
```

```
<----->
```

```
Father's age:>45
```

```
Son's age:> 33
```

```
C:\Users\cw\Desktop\00JLAB\Lab8 (week10)>java main
```

```
Enter the father's Age
```

```
87
```

```
Enter the Son's Age
```

```
98
```

```
<----->
```

```
An exception has occurred: Son's Age cant be greater than Father's Age
```

```
Father's age:>87
```

```
Son's age:> 98
```

```
C:\Users\cw\Desktop\00JLAB\Lab8 (week10)>
```