LAB 8

```java
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
{
```

```java
    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);

                }
        }
}
```

OUTPUT

```
Last login: Fri Dec 11 15:05:31 on ttys000

The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
[Sudeshnas-MacBook-Air:~ sudeshnabhushan$ cd Desktop/3rd_SEM/OOPS_Progs
[Sudeshnas-MacBook-Air:OOPS_Progs sudeshnabhushan$ javac Main2.java
[Sudeshnas-MacBook-Air:OOPS_Progs sudeshnabhushan$ java Main2
enter the age of father
77
enter the age of son
2
proper ages have been entered
[Sudeshnas-MacBook-Air:OOPS_Progs sudeshnabhushan$ java Main2
enter the age of father
2
enter the age of son
99
error:father age cannot be less than or equal to son age
Sudeshnas-MacBook-Air:OOPS_Progs sudeshnabhushan$ █
```