LAB PROGRAM-8

Write a program that demonstrates handling of exceptions in inheritance tree. Create a base class called "Father" and a derived class called "Son" which extends the base class. In Father class, implement a constructor which takes the age and throws the exception Wrong Age() when the input age=father's age.

Program:

```
import java.util.*;
import java.lang.String;
import java.awt.*;
import java.awt.event.*;
class WrongAge extends Exception{
int age;
WrongAge(int x)
₹
age=x;
public String toString()
return "AGE OF SON="+age+" IS ENTERED
INCORRECTLY";
}
ł
class father
{
int a;
father(int x)
{
<u>a=x;</u>
ł
class son extends father{
int age;
son(int fage,int sage){
super(fage);
age=sage;
_}
void compute() throws WrongAge{
if(age>=a)
_{
throw new WrongAge(age);
```

```
else{
System.out.println("THE AGES ARE ENTERED
CORECTLY");
System.out.println("FATHER'S AGE="+a+"\t"+"SON'S
AGE="+age):
}
}
}
class expmain
public static void main(String args[])
Scanner s=new Scanner(System.in);
System.out.println("ENTER FATHER'S AGE");
int f=s.nextInt();
System.out.println("ENTER SON'S AGE");
int so=s.nextInt();
son ss=new son(f,so);
try{
ss.compute():
}catch(WrongAge e)
₹
System.out.println(e);
}
<u>}</u>
```

OUTPUT:

```
Command Prompt
Microsoft Windows [Version 10.0.18362.1082]
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C:\Users\arpit>cd..
C:\Users>cd..
C:\cd java lab
C:\java lab>javac exp.java
C:\java lab>java exp
Enter father's age:
78
Enter sons's age:
34
Father's age: 78
Son's age: 34
C:\java lab>_
```