8. Write a program that demonstrates handling of exceptions in inheritance tree. Create a base class called "Father" and 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.

CODE:

```
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";
```

```
class father
int a;
father(int x)
a=x;
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);
}
}
OUTPUT:
```

```
ENTER FATHER'S AGE

55
ENTER SON'S AGE

18
THE AGES ARE ENTERED CORECTLY
FATHER'S AGE=55 SON'S AGE=18
```