7) 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 WrongAge( ) when the input age=father’s age.

```
import java.util.Scanner;

class WrongAgeException extends Exception {

    public WrongAgeException(String message) {

        super(message);

  System.out.println("Error");

    }

}


class Father {

    int age;


     Father(int age) throws WrongAgeException {

  this.age = age;

        if (age < 0) {

            throw new WrongAgeException("Age cannot be negative");

        }


    }

}


class Son extends Father {

    int sonage;


     Son(int age, int sonage) throws WrongAgeException {

        super(age);

 this.sonage = sonage;

        if (sonage >= age) {

            throw new WrongAgeException("Son's age should be less than father's age");
```

```
        }


    }
}



 class excep {
    public static void main(String[] args) {
Scanner s1=new Scanner(System.in);
int age,sonage;
        try {
System.out.println("Enter f age");
age=s1.nextInt();
System.out.println("Enter s age");
sonage=s1.nextInt();
            Father father = new Father(40);
            Son son = new Son(4, 20);
        } catch (WrongAgeException e) {
            System.out.println("Exception occurred: " + e.getMessage());
        }
    }
}
```

```
C:\Users\Lakshitha.L\Desktop\java>javac excep.java

C:\Users\Lakshitha.L\Desktop\java>java excep
Enter f age
35
Enter s age
36
Error
Exception occurred: Son's age should be less than father's age

C:\Users\Lakshitha.L\Desktop\java>
```