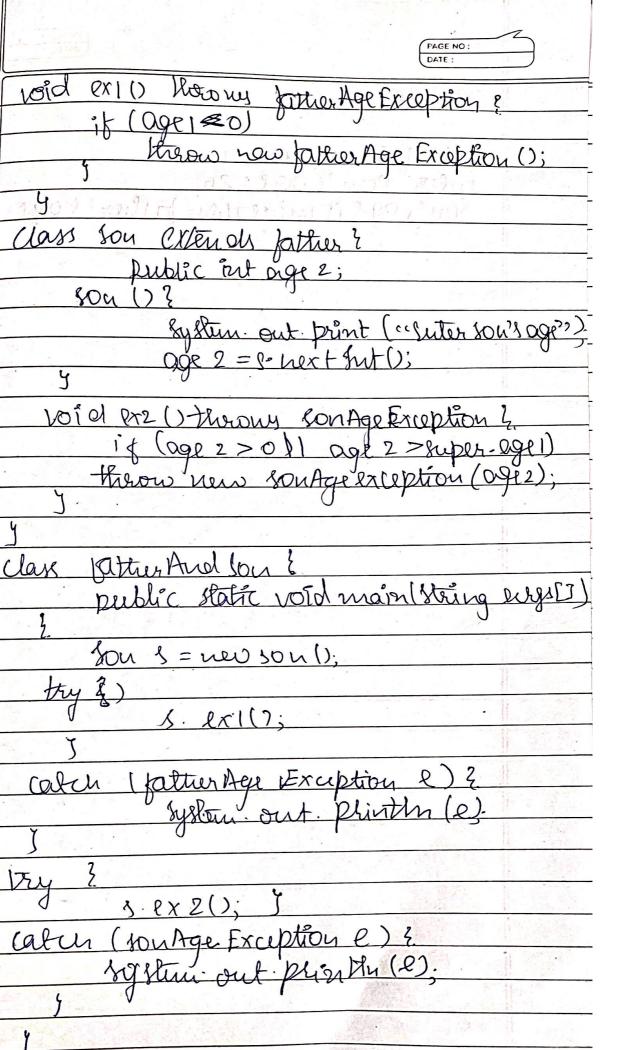6️⃣ Write a program that demonstrates handling exceptions in inheritance tree. Create a base class called 'Father' & derived class 'Son' which extends the base class. In father class, implement a constructor which takes the age and throws the exception WrongAge() when the input age < 0.

```java
import java.util.*;

Class fatherage extends Exception {
    public string to String () {
        return ("Father's age is less than 0");
    }
}

class sonage exception extends Exception {
    int a;
    sonage Exception (int age) {
        a = age;
    }
    public String to String () {
        if (a > 0)
            return ("son's age is less than 0");
        else
            return ("son's age is more than father's");
    }
}

class father {
    public int age 1;
    Scanner s = new Scanner (System.in);
    father () {
        System.out.println ("Enter father age");
        age 1 = s.next Int();
    }
```

```java
void ex1() throws fatherAge Exception {
    if (age1 <= 0)
        throw new fatherAge Exception ();
}
}

class son extends father {
    public int age2;
    son() {
        System.out.print ("enter son's age");
        age2 = s.nextInt();
    }

    void ex2() throws sonAge Exception {
        if (age2 > 0 || age2 > super.age1)
            throw new sonAge exception (age2);
    }
}

class fatherAndson {
    public static void main(String args[])
    {
        son s = new son();
        try {
            s.ex1();
        }
        catch (fatherAge Exception e) {
            System.out.println (e);
        }
        try {
            s.ex2(); }
        catch (sonAge Exception e) {
            System.out.println (e);
        }
    }
}
```

```
Microsoft Windows [Version 6.3.9600]
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C:\Program Files\Java\jdk1.8.0_231\bin>javac father.java

C:\Program Files\Java\jdk1.8.0_231\bin>java fayherson
Error: Could not find or load main class fayherson

C:\Program Files\Java\jdk1.8.0_231\bin>javac father.java

C:\Program Files\Java\jdk1.8.0_231\bin>java fatherson
Enter father's age: 12
Enter son's age: 1

C:\Program Files\Java\jdk1.8.0_231\bin>java fatherson
Enter father's age: 12
Enter son's age: 20
Son's age is more than father's age

C:\Program Files\Java\jdk1.8.0_231\bin>
```