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.

```java
import java.util.*;
class Father extends Exception {

    int Father_age;

    Father(int Father_age) {

        this.Father_age = Father_age;

    }


    public String toString() {

        return "Age must be a positive integer";

    }

}


class Son extends Father {

    int Son_age;

    Son(int Father_age, int Son_age) {

        super(Father_age);

        this.Son_age = Son_age;

    }


    public String toString() {

        return "Son's age must be less than father's age";

    }

}
class myException {

    static void WrongAge(int Father_age, int Son_age) throws Son, Father {
```

```java
        if (Father_age <= 0 || Son_age <= 0)

            throw new Father(Father_age);

        else if (Son_age >= Father_age)

            throw new Son(Father_age, Son_age);

    }


    static void WrongAge(int age) throws Father {

        if (age <= 0)

            throw new Father(age);

    }


    public static void main(String[] args){

        Scanner sc = new Scanner(System.in);

        try {

            System.out.println("Enter father age");

            int F_age = sc.nextInt();

            WrongAge(F_age);

            System.out.println("Enter son age");

            int S_age = sc.nextInt();

            WrongAge(S_age); WrongAge(F_age, S_age);

            System.out.println("No Errors\n" + "Son's Age:" + S_age + "\n" + "Father's Age:" +
F_age);

        } catch (Son s) {

            System.out.println("\nError!!!: " + s);

        } catch (Father f) {

            System.out.println("\nError!!!: " + f);

        }


    }
}
```

OUTPUT:

```
Select Command Prompt

C:\Users\VIGNESH\OneDrive\Desktop>javac Program7.java

C:\Users\VIGNESH\OneDrive\Desktop>java myException
Enter father age
0

Error!!!: Age must be a positive integer

C:\Users\VIGNESH\OneDrive\Desktop>java myException
Enter father age
50
Enter son age
60

Error!!!: Son's age must be less than father's age

C:\Users\VIGNESH\OneDrive\Desktop>java myException
Enter father age
50
Enter son age
0

Error!!!: Age must be a positive integer

C:\Users\VIGNESH\OneDrive\Desktop>java myException
Enter father age
50
Enter son age
25
No Errors
Son's Age:25
Father's Age:50

C:\Users\VIGNESH\OneDrive\Desktop>
```