

//LAB 8

import java.util.*;

```
class ageException extends Exception{
    int detail;
    ageException(int a){
        detail = a;
    }
    public String toString(){
        return "Exception :"+detail+" the entered age does not match the category";
    }
}
```

```
class Father{
    int age;
    Father(int age) throws ageException{
        this.age = age;
        if(this.age<=0){
            throw new ageException(this.age);
        }
    }
    void display(){
        System.out.println("Father's age:"+this.age);
    }
}
```

```
class Son extends Father{
    Father f;
    Son(int age,Father f) throws ageException{
        super(age);
        this.f = f;
        if(this.age>=this.f.age){
```

```

        //System.out.println(f.age);

        throw new ageException(this.age);
    }
}

void display(){
    this.f.display();

    System.out.println("Son's age:"+this.age);
}
}

```

```

public class Lab{

    public static void main(String[] args){

        try{

            Scanner input = new Scanner(System.in);

            Father f = new Father(input.nextInt());

            Son s = new Son(input.nextInt(),f);

            s.display();

        }catch(Exception e){

            System.out.println(e);

        }

    }
}

```

```

Microsoft Windows [Version 10.0.19041.685]
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C:\Users\Samarth>cd C:\Users\Samarth\Documents

C:\Users\Samarth\Documents>javac Lab.java

C:\Users\Samarth\Documents>java Lab
50
19
Father's age:50
Son's age:19

C:\Users\Samarth\Documents>java Lab
2
1
Father's age:2
Son's age:1

C:\Users\Samarth\Documents>java Lab
1
2
Exception :2 the entered age does not match the category

C:\Users\Samarth\Documents>

```