Signer input = new Scanner (Systemin);

System out penter ("Inter the Fother's age:");

System out peinter ("Contex the son's age:");

Son S= new Son (input nextant(), f);

Sodisplay & (); &

catch (Exception e) &

System out peintle (e);

```
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){
            throw new ageException(this.age);
    void display(){
        this.f.display();
        System.out.println("Son's age:"+this.age);
public class prog8{
    public static void main(String[] args){
        try{
            Scanner input = new Scanner(System.in);
            System.out.print("Enter the Father's age:");
            Father f = new Father(input.nextInt());
            System.out.print("Enter the Son's age:");
            Son s = new Son(input.nextInt(),f);
            s.display();
        }catch(Exception e){
            System.out.println(e);
        }
   }
```

```
[Enter the Father's age:47
Enter the Son's age:15
Father's age:47
Son's age:15
poojaraghu@Poojas-MacBook-Pro Desktop % java prog8
[Enter the Father's age:-18
Exception :-18 the entered age does not match the category poojaraghu@Poojas-MacBook-Pro Desktop % java prog8
[Enter the Father's age:29
Enter the Son's age:34
Exception :34 the entered age does not match the category poojaraghu@Poojas-MacBook-Pro Desktop % ■
```

poojaraghu@Poojas-MacBook-Pro Desktop % java prog8