

```

import java.util.Scanner;
class Father
{
    int f_age;
    Father(int age)
    {
        try
        {
            check(age);
        }
        catch(Excp e)
        {
            System.out.println(e+" Age cannot be negative.");
        }
    }
    static void check(int a) throws Excp
    {
        if(a<0)
            throw new Excp();
        System.out.println("No exception in father's age");
    }
}
class Excp extends Exception
{
    public String toString()
    {
        return "Wrong age.";
    }
}
class Son extends Father
{
    int s_age;
    Son(int f, int s)
    {
        super(f);
        try
        {
            check(f, s);
        }
    }
}

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        catch(Excp e)
        {
            System.out.println(e+" Son's age cannot be greater
than or equal to father's age.");
        }
    }
    static void check(int fa, int son) throws Excp
    {
        if(son>=fa)
            throw new Excp();
        System.out.println("No exception in son's age");
    }
}
class lab8
{
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        int f, s;
        System.out.println("Enter the age of father and son");
        f=sc.nextInt();
        s=sc.nextInt();
        Son ob=new Son(f, s);
    }
}

```

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[Ishas-MacBook-Air:~ isha$ cd Desktop/
[Ishas-MacBook-Air:Desktop isha$ javac lab8.java
[Ishas-MacBook-Air:Desktop isha$ java lab8
Enter the age of father and son
-45 50
Wrong age. Age cannot be negative.
Wrong age. Son's age cannot be greater than or equal to father's age.
[Ishas-MacBook-Air:Desktop isha$ java lab8
Enter the age of father and son
45 50
No exception in father's age
Wrong age. Son's age cannot be greater than or equal to father's age.
[Ishas-MacBook-Air:Desktop isha$ java lab8
Enter the age of father and son
45 15
No exception in father's age
No exception in son's age
Ishas-MacBook-Air:Desktop isha$
```