

LAB-8

```
import java.util.Scanner;
class fatherAgeException extends Exception {
    public String toString() {
        return ("Wrong Age! Father's age is less than 0");
    }
}
```

```
class sonAgeException extends Exception {
    int a, b;
    sonAgeException(int sage, int fage) {
        sage a = sage;
        b = fage;
    }
    public String toString() {
        if (a == b)
            return ("Son's age = father's age");
        else
            return ("Son's age > father's age");
    }
}
```

```
class Father {
    public int age1;
    Scanner scan = new Scanner(System.in);
    Father() {
        System.out.println("Enter father's age: ");
        age1 = scan.nextInt();
    }
    void ex1() throws fatherAgeException {
        if (age1 < 0)
            throw new fatherAgeException();
    }
}
```

```

class Son extends Father {
    public int age2;
    Son() {
        System.out.println("Enter son's age: ");
        age2 = scan.nextInt();
    }
    void ex2() throws sonAgeException {
        if (age2 >= age1)
            throw new sonAgeException(age2, age1);
    }
}

class Main {
    public static void main(String [] args) {
        Son s = new Son();
        try { s.ex1(); }
        catch (father AgeException e)
        { System.out.println(e); }
        try { s.ex2(); }
        catch (sonAgeException e)
        { System.out.println(e); }
    }
}

```