

## Labprog-8

```
import java.util.Scanner;
class WrongAge {
    Scanner s;
}

class Father {
    int fatherAge;
    Father (int fAge, int sAge) throws WrongAge {
        if (fAge <= sAge) {
            throw new WrongAge ("Father's Age is equal to or less
            than Son's Age");
        } else {
            this.fatherAge = fAge;
        }
    }
}

class Son extends Father {
    int sonAge;
    Son (int fAge, int sAge) throws WrongAge {
        super (fAge, sAge);
        this.sonAge = sAge;
    }

    void print () {
        System.out.println ("Father's Age: " + fatherAge);
        System.out.println ("Son's Age: " + sonAge);
    }
}

public class Labprog8 {
```

```
public static void main (String[] args) {  
    int fAge, sAge;  
    Scanner sc = new Scanner (System.in);  
    System.out.println ("Enter Father's age");  
    fAge = sc.nextInt();  
    System.out.println ("Enter son's age");  
    sAge = sc.nextInt();  
  
    try {  
        Son son = new Son (fAge, sAge);  
        son.print();  
    } catch (WrongAgeException e) {  
        System.out.println ("Exception" + e);  
    }  
}
```

```
Labprog8 - Notepad
File Edit Format View Help
import java.util.Scanner;

class WrongAge extends Exception {
    public WrongAge(String s){
        super(s);
    }
}

class Father {
    int fatherAge;

    Father(int fAge, int sAge) throws WrongAge{
        if(fAge <= sAge){
            throw new WrongAge("Father's Age is equal to or less than Son's Age");
        }else{
            this.fatherAge = fAge;
        }
    }
}

class Son extends Father {
    int sonAge;

    Son(int fAge, int sAge) throws WrongAge{
        super(fAge, sAge);
        this.sonAge = sAge;
    }

    void print(){
        System.out.println("Father's Age: " + fatherAge);
        System.out.println("Son's Age: " + sonAge);
    }
}

public class Labprog8 {
    public static void main(String[] args){
        int fAge,sAge;
        Scanner sc = new Scanner(System.in);

        System.out.println("Enter Father's age");
        fAge = sc.nextInt();
        System.out.println("Enter Sons's age");
    }
}
```

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```
Father(int fAge, int sAge) throws WrongAge{
    if(fAge <= sAge){
        throw new WrongAge("Father's Age is equal to or less than Son's Age");
    }else{
        this.fatherAge = fAge;
    }
}

class Son extends Father {
    int sonAge;

    Son(int fAge, int sAge) throws WrongAge{
        super(fAge, sAge);
        this.sonAge = sAge;
    }

    void print(){
        System.out.println("Father's Age: " + fatherAge);
        System.out.println("Son's Age: " + sonAge);
    }
}

public class Labprog8 {
    public static void main(String[] args){
        int fAge,sAge;
        Scanner sc = new Scanner(System.in);

        System.out.println("Enter Father's age");
        fAge = sc.nextInt();
        System.out.println("Enter Sons's age");
        sAge = sc.nextInt();

        try{
            Son son = new Son(fAge, sAge);
            son.print();
        }catch(WrongAge err){
            System.out.println("Exception " + err);
        }
    }
}
```

## Command Prompt

```
Microsoft Windows [Version 10.0.18363.1198]
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C:\Users\91957>cd desktop
C:\Users\91957\Desktop>cd java lab
C:\Users\91957\Desktop\java lab>javac Labprog8.java
C:\Users\91957\Desktop\java lab>java Labprog8
Enter Father's age
45
Enter Sons's age
21
Father's Age: 45
Son's Age: 21
C:\Users\91957\Desktop\java lab>
```