

*Wk10prog2 - Notepad

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```
import java.util.Scanner;
class WrongAge extends Exception {
String p;
WrongAge(String s){
p=s;
}
public String toString(){
return p;
}
}

class Father {
int fatherAge,sonAge;
Father(int fAge, int sAge) throws WrongAge{
if((fAge<0)|| (sAge<0)){
throw new WrongAge("Father's Age or Son's Age is less than 0. ");
}else{
this.fatherAge = fAge;
this.sonAge = sAge;
}
}
}

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


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```
}  
}
```

```
class Son extends Father {  
    Son(int fAge, int sAge) throws WrongAge{  
        super(fAge, sAge);  
        if(fAge <= sAge){  
            throw new WrongAge("Father's Age is equal to or less than Son's Age");  
        }  
        this.fatherAge=fAge;  
        this.sonAge = sAge;  
    }  
    void print(){  
        System.out.println("Father's Age: " + fatherAge);  
        System.out.println("Son's Age: " + sonAge);  
    }  
}
```

```
class Wk10prog2{  
    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(WrongAge err){  
            System.out.println("Exception :" + err);  
        }  
    }  
}
```


C:\WINDOWS\system32\cmd.exe

C:\Users\AKSHAY RASTOGI\Desktop\java prog>javac Wk10prog2.java

C:\Users\AKSHAY RASTOGI\Desktop\java prog>java Wk10prog2

Enter Father's age

-33

Enter Son's age

24

Exception :Father's Age or Son's Age is less than 0.

C:\Users\AKSHAY RASTOGI\Desktop\java prog>java Wk10prog2

Enter Father's age

45

Enter Son's age

30

Father's Age: 45

Son's Age: 30

C:\Users\AKSHAY RASTOGI\Desktop\java prog>java Wk10prog2

Enter Father's age

33

Enter Son's age

50

Exception :Father's Age is equal to or less than Son's Age

C:\Users\AKSHAY RASTOGI\Desktop\java prog>