

30/1/24

Lab 07

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Father - Son Age

```
import java.util.Scanner;  
class WrongAge extends Exception {  
    WrongAge (String error) {  
        System.out.println(error);  
    }  
}
```

```
class Father {  
    int age;  
    Father (int age) throws WrongAge {  
        if (age < 0)  
            throw new WrongAge ("Father's age cannot  
            be negative");  
        this.age = age; } }  
}
```

```
class Son extends Father {  
    int age;  
    Son (int age, int s-age) throws WrongAge {  
        super (age);  
        if (s-age >= age) {  
            throw new WrongAge ("Son's age cannot  
            be greater than Father's Age");  
            this.age = age; } }  
}
```



```

class Main {
    public static void main (String args[]) {
        Scanner sc = new Scanner (System.in);
        try {
            System.out.println ("Enter Father's age:");
            int f-age = sc.nextInt();
            System.out.println ("Enter Son's age:");
            int s-age = sc.nextInt();
            Son a = new Son (f-age, s-age);
            System.out.println ("Father's age: " + f-age);
            System.out.println ("Son's age: " + s-age);
        }
        catch (WrongAge e) {
            System.out.println ("Wrong age entered");
        }
        catch (Exception ee) {
            System.out.println ("Unexpted error: " + ee);
        }
    }
}

```

OUTPUT

Enter the Father's Age: 53
 Enter the Son's Age: 15
 Father's age: 53
 Son's age: 15

Enter Father's age: 15

Enter Son's age: 23

~~Wrong~~ Son's age cannot be greater than
Father's age

Wrong age entered

Enter the Father's age: -15

Enter the Son's age = 15

Father's age cannot be negative

Wrong Age entered

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