

Lab-8, Exception Handlings

```
import java.util.*;  
class wrg extends Exception {  
    int f, s;  
    wrg(int fa, int sa) {  
        f = fa;  
        s = sa;  
    }  
}
```

```
public String toString() {  
    public String toString() {  
        return "Father's age (" + f + ") can't be <= to  
        son's age (" + s + ") ... ";  
    }  
}
```

```
class neg extends Exception {  
    int a;  
    neg(int fa) {  
        a = fa;  
    }  
    public String toString() {  
        return "Age (" + a + ") can't be negative";  
    }  
}
```

```
class Father {  
    int age;  
    String name;  
    Scanner in = new Scanner(System.in);  
    Father() throws neg {  
        System.out.print("Enter father's name: ");  
    }  
}
```

```
name = in.next();
```

```
System.out.print("Enter father's age: ");
```

```
age = in.nextInt();
```

```
if (age < 0) {
```

```
    throw new neg(age);
```

```
}
```

```
}
```

```
}
```

```
class son extends Father {
```

```
    int age;
```

```
    String name;
```

```
    Scanner in = new Scanner(System.in);
```

```
    son() throws neg, wrg {
```

```
        super();
```

```
        System.out.print("Enter son's name: ");
```

```
        name = in.next();
```

```
        System.out.print("Enter son's age: ");
```

```
        age = in.nextInt();
```

```
        if (age < 0) {
```

```
            throw new neg(age);
```

```
        }
```

```
        if (age >= age) {
```

```
            throw new wrg(age, age);
```

```
        }
```

```
        System.out.println("Father's age is "+age"
```

```
and son's age is "+age); } }
```

```
exitHand
```

```
class son {
```

```
    public static void main (String args[]) {
```

```
        try {
```

```
            son s = new son();
```

```
        }
```



```

catch (msg m) {
    System.out.println("Exception caught : "+m);
}
catch (msg w) {
    System.out.println("Exception caught : "+w);
}
}

```

Expected output :-

Enter father's name : a
 Enter father's age : 30
 Enter son's name : b
 Enter son's age : 10
 Father's age is 30 and Son's age is 10

Enter father's name : a
 Enter father's age : -32
 Exception caught : age(-32) can't be negative

Enter father's name : a
 Enter father's age : 32
 Enter son's name : b
 Enter son's age : 50
 Exception caught : Father's age(32) can't be <= to son's age(50)...