

10

Father age : 30  
Son age : 40

Quar  
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```

class Son extends Father {
    int s_age;

    Son() throw WrongAgeException {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter son's age:");
        s_age = s.nextInt();
        if (s_age < 0) {
            throw new WrongAgeException("son
            age < 0");
        }
        else if (s_age > f_age) {
            throw new WrongAgeException("son
            age is > that father's age!");
        }
    }

    void display() {
        System.out.println("Father age: " + f_age);
        System.out.println("son age: " + s_age);
    }
}

class excep {
    public static void main(String[] args) {
        try {
            Father f = new Father();
            f.display();
            Son s = new Son();
            s.display();
        }
    }
}

```

catch (WrongAgeException sy

{

OUTPUT:

Enter father's age

40

Enter son's age

80

son age is > that father's age!

Enter father's age

80

Enter son's age

40

Father age

Son age

20

30



## Exception Handling

```
import java.util.*;

class WrongAgeException extends Exception {
    String msg = new String();
    WrongAgeException(String x) {
        msg = x;
    }
    public String toString() {
        return msg;
    }
}

class Father {
    int f_age;

    Father() throw WrongAgeException {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter father's age:");
        f_age = s.nextInt();
        if (f_age < 0) {
            throw new WrongAgeException("Father age < 0");
        }
    }

    void display() {
        System.out.println("Father age: " + f_age);
    }
}
```



## Command Prompt

```
C:\Users\STUDENT>cd desktop
C:\Users\STUDENT\Desktop>javac excep.java
excep.java:34: error: illegal start of type
40
^
1 error
C:\Users\STUDENT\Desktop>javac excep.java
C:\Users\STUDENT\Desktop>java excep
Enter father's age:
40
Enter son's age:
80
Son age is > that father's age!
C:\Users\STUDENT\Desktop>java excep
Enter father's age:
80
Enter son's age:
40
Father age: 80
Son age: 40
C:\Users\STUDENT\Desktop>java excep
Enter father's age:
80
Enter son's age:
80
Father age: 80
Son age: 80
C:\Users\STUDENT\Desktop>java excep
Enter father's age:
-6
Father age < 0
C:\Users\STUDENT\Desktop>
```