

JavaLab Program 8

```
import java.util. Scanner;
```

```
class fatherAgeException extends Exception {
```

```
    public String toString() {
```

```
        return ("Wrong Age !! Father's Age is less than 0");
```

```
    }
```

```
}
```

```
class SonAgeException extends Exception {
```

```
    int a, b;
```

```
    SonAgeException (int sage, int fage) {
```

```
        a = sage;
```

```
        b = fage;
```

```
    }
```

```
    public String toString() {
```

```
        if (a == b)
```

```
            return ("Wrong Age !! Son's age is equal to father's age");
```

```
        else
```

```
            return ("Wrong Age !! Son's age is more than father's age");
```

```
    }
```

```
}
```

```
class Father {
```

```
    public int age1;
```

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

```
    int age1;
```



```
Father () {
```

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

```
age1 = scan.nextInt();
```

```
}
```

```
void ex1() throws FatherAgeException {
```

```
if (age1 < 0)
```

```
throw new FatherAgeException();
```

```
}
```

```
}
```

```
class Son extends Father {
```

```
public int age2;
```

```
Son () {
```

```
System.out.println("Enter Son's age: ");
```

```
age2 = scan.nextInt();
```

```
}
```

```
void ex2() throws SonAgeException {
```

```
if (age2 < 0 || age2 >= age1)
```

```
throw new SonAgeException(age2, age1);
```

```
}
```

```
}
```

```
class main {
```

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

```
Son S = new Son();
```

```
{
```

```
try {
```

```
S.ex1();
```

```
catch (FatherAgeException e) {
```

```
System.out.println(e);
```

```
}
```


try {

s.ex2();

} catch (RuntimeException e) {

System.out.println(e);

}

}

}

}