

Lab - 7

Page

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

```
public class WrongAge extends Exception {
```

```
    public WrongAge () {
```

```
        super ("error message");
```

}

```
    public WrongAge (String message) {
```

```
        super (message);
```

}

}

```
public class InputScanner {
```

```
    Scanner sc;
```

```
    public InputScanner () {
```

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

```
        static Scanner sc = new Scanner
```

y

```
(System.in)
```

```
public class Father extends InputScanner {
```

```
    int fatherage;
```

```
Father () throws WrongAge {
```

```
    super ();
```

```
    System.out.println ("Enter father's
```

```
age");
```

```
    fatherage = sc.nextInt();
```

```
    if (fatherage < 0) {
```

```
        throw new WrongAge ("Age cannot  
be negative");
```

}

}

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```
void display() {
    System.out.println ("Father's age is " + fatherAge);
}
```

class Son extends Father {
 int sonage;

```
Son() throws WrongAge & super();
System.out.println ("Enter Son's age:");
sonage = sc.nextInt();
if (sonage > fatherage) {
    throw new WrongAge ("Son's age
        cannot be greater than Father's age");
} else if (sonage < 0) {
    throw new WrongAge ("Age cannot
        be negative");
}
```

```
void display() {
    super.display();
    System.out.println ("Son's age is " + sonage);
}
```

```
public class MainException {
    public static void main (String[] args) {
        try {
            Son s = new Son();
            s.display();
        } catch (WrongAge e) {
            System.out.println ("Exception : "
                + e.getMessage());
        }
    }
}
```

```
    e.getMessage());  
}  
}
```

Output:

Enter Father's age = 47

Enter Son's age = 50

Exception: Son's age cannot be greater
than father's age.

Enter Father's age = 47

Enter Son's age = -3

Exception: Age cannot be negative.

Enter Father's age = -57

Exception: Age cannot be negative.

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