

LAB 8

```
import java.util.*;
```

```
import java.lang.*;
```

```
class AgeException extends Exception {
```

```
    int x;
```

```
    AgeException(int x) {
```

```
        this.x = x;
```

```
    }
```

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

```
        return "INVALID INPUT: " + x;
```

```
    }
```

```
}
```

```
class Father {
```

```
    int Fage;
```

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

```
    Father() throws AgeException {
```

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

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

```
        if (Fage < 0)
```

```
            throw new AgeException(Fage);
```

```
}
```

```
class Son extends Father {
```

```
    int Sage;
```

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

```
    Son() throws AgeException {
```

```
        super();
```

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

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

```
        if (Sage < 0)
```

```
            throw new AgeException(Sage);
```

```
if (Sage > super.Age || Sage == super.Age)
    throw new AgeException (Sage);
```

```
}
```

```
class FatherSon {
```

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

```
        try {
```

```
            Son s = new Son();
```

```
        } catch (AgeException e) {
```

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

```
        }
```

```
    }
```

```
}
```