

## Lab - Program - 8 (Exception)

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

```
class Main {
```

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

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

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

```
        int fatherAge = in.nextInt();
```

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

```
        int sonAge = in.nextInt();
```

```
        in.close();
```

```
        Son son;
```

```
        try {
```

```
            son = new Son(sonAge, fatherAge);
```

```
            System.out.println("No errors");
```

```
        }
```

```
        catch (AgeLessThanZeroException exception) {
```

```
            System.out.println(exception.getMessage());
```

```
        catch (SonOlderThanFatherException exception) {
```

```
            System.out.println(exception.getMessage());
```

```
        }
```

```
    }
```

```
}
```

```
public class AgeLessThanZeroException extends Exception {
```

```
    AgeLessThanZeroException (String message) {
```

```
        super(message);
```

```
    }
```

```
}
```

```
public class SonOlderThanFatherException extends Exception {
```

```
    SonOlderThanFatherException (String message) {
```

```
        super(message);
```

```
    }
```

```
}
```

```
public class Father {
```

```
    int age = 0;
```

```
    message = "Father's age cannot be less than zero";
```

```
    Father () { }
```

```
    Father (int age) throws Age less than AgeLessThanZeroException
```

```
{
```

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

```
            throw new new AgeLessThanZeroException (message);
```

```
            this.age = age;
```

```
        }
```

```
    }
```



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```
public class Son extends Father {
```

```
    String message1 = "Son's age cannot be greater than father's  
                        age";
```

```
    String message2 = "Son's age cannot be less than zero";  
    int age;
```

```
    Son(int sonAge, int FatherAge) throws AgeLessThanZeroException,  
        SonOlderThanFatherException {
```

```
    {
```

```
        super(FatherAge);
```

```
        if (sonAge < 0)
```

```
            throw new AgeLessThanException (message2);
```

```
        if (sonAge >= fatherAge)
```

```
            throw new SonOlderThanFatherException (message1);
```

```
            age = sonAge;
```

```
    }
```

```
}
```