

Lab Program 8:

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

```
class WrongAge extends Exception {  
    int fage;  
    int sage;
```

```
    WrongAge(int age) {  
        this.fage = age;  
    }
```

```
    WrongAge(int fage, int sage) {  
        this.fage = fage;  
        this.sage = sage;  
    }
```

```
    public String toString() {  
        return "Invalid age";  
    }
```

```
}
```

```
class Father {
```

```
    int age-of-father;
```

```
    Father(int a) throws WrongAge {
```

```
        age-of-father = a;
```

```
        if (age-of-father < 0) {
```

```
            throw new WrongAge(a);  
        }
```

```
        System.out.println("Valid father's age");  
    }
```

```
}
```

```
class son extends Father {
```

```
    int age-of-son;
```

```
    son(int fa, int sa) throws WrongAge {
```

```
        super(fa);
```

```
        age-of-son = sa;
```

```
        if (sa >= fa) {
```

```
            throw new WrongAge(fa, sa);
```

```
        }
```

```
        System.out.println("Valid son's age");
```

```
    }
```

```
}
```

```
class ExceptionMain {
```

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

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

```
        System.out.println("Enter the details");
```

```
        try {
```

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

```
            Father f = new Father(input.nextInt());
```

```
        }
```

```
        catch (WrongAge e) {
```

```
            System.out.println("For father's data");
```

```
            System.out.println("Caught: " + e);
```

```
        }
```

```
try {  
    System.out.println("Enter the father's  
    age (again) and son's age");  
    son s = new son (input.nextInt(),  
        input.nextInt());  
}  
catch (WrongAge e) {  
    System.out.println("For son's data");  
    System.out.println("Caught: " + e);  
}  
}
```