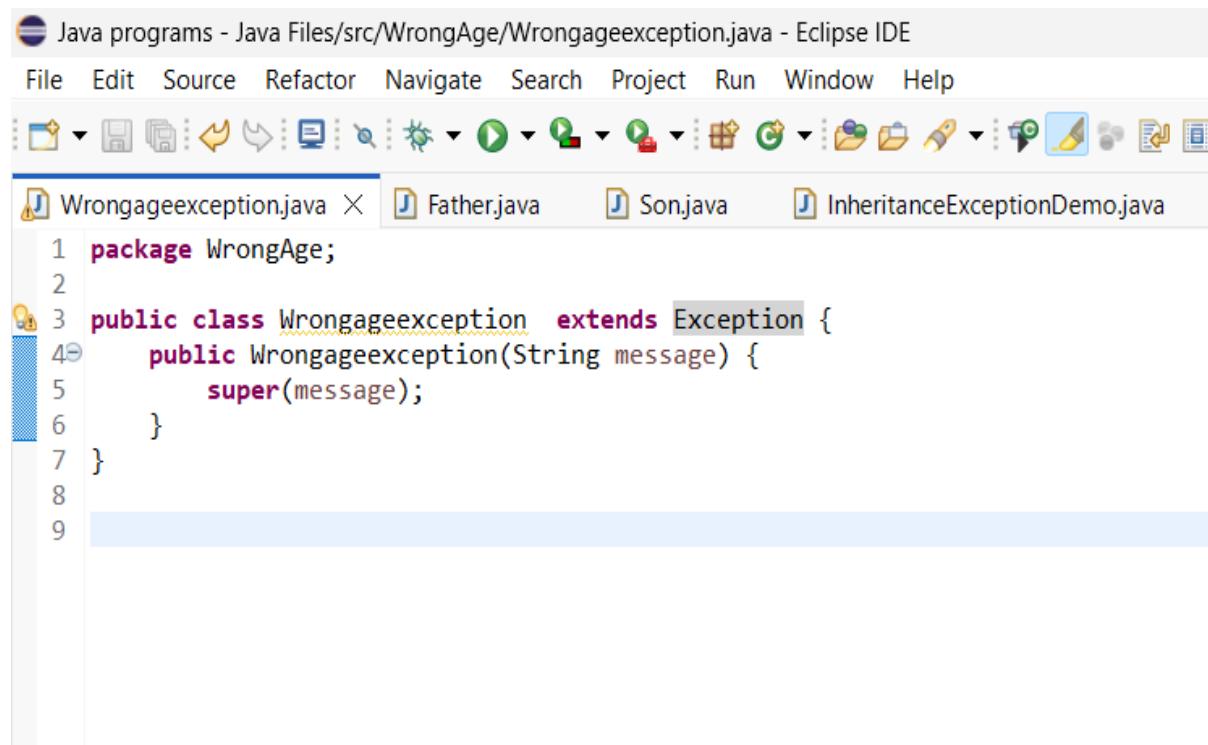


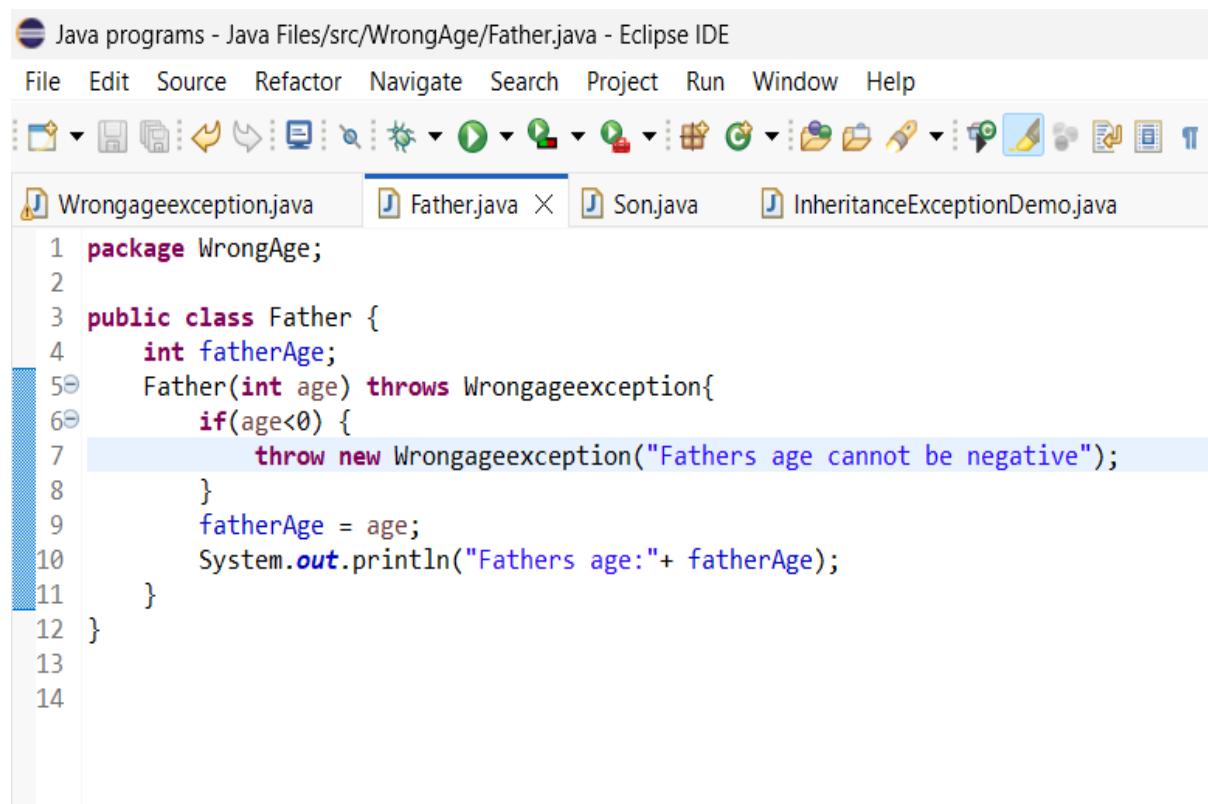
LAB PROGRAM 7:

Write a program that demonstrates handling of exceptions in inheritance tree. Create a base class called “Father” and derived class called “Son” which extends the base class. In Father class, implement a constructor which takes the age and throws the exception Wrong Age () when the input age=father’s age.



The screenshot shows the Eclipse IDE interface with the title bar "Java programs - Java Files/src/WrongAge/Wrongageexception.java - Eclipse IDE". The menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The toolbar below has various icons for file operations like Open, Save, Print, and Find. The editor tab bar shows "Wrongageexception.java X" (selected), "Father.java", "Son.java", and "InheritanceExceptionDemo.java". The code in the editor is:

```
1 package WrongAge;
2
3 public class Wrongageexception extends Exception {
4     public Wrongageexception(String message) {
5         super(message);
6     }
7 }
```



The screenshot shows the Eclipse IDE interface with the title bar "Java programs - Java Files/src/WrongAge/Father.java - Eclipse IDE". The menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The toolbar below has various icons for file operations like Open, Save, Print, and Find. The editor tab bar shows "Wrongageexception.java" (selected), "Father.java X", "Son.java", and "InheritanceExceptionDemo.java". The code in the editor is:

```
1 package WrongAge;
2
3 public class Father {
4     int fatherAge;
5     Father(int age) throws Wrongageexception{
6         if(age<0) {
7             throw new Wrongageexception("Fathers age cannot be negative");
8         }
9         fatherAge = age;
10        System.out.println("Fathers age:"+ fatherAge);
11    }
12 }
```

Java programs - Java Files/src/WrongAge/Son.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Wrongageexception.java Father.java *Son.java InheritanceExceptionDemo.java

```
1 package WrongAge;
2
3
4 class Son extends Father {
5     int sonAge;
6
7     Son(int fAge, int sAge) throws Wrongageexception {
8         super(fAge);
9
10        if (sAge >= fAge) {
11            throw new Wrongageexception("Son's age cannot be greater than or equal to Father's age");
12        }
13        sonAge = sAge;
14    }
15
16    void display() {
17        System.out.println("Father's Age: " + fatherAge);
18        System.out.println("Son's Age: " + sonAge);
19    }
20}
21
22
23
24
25
```

Java programs - Java Files/src/WrongAge/InheritanceExceptionDemo.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Wrongageexception.java Father.java *Son.java InheritanceExceptionDemo.java

```
1 package WrongAge;
2
3 public class InheritanceExceptionDemo {
4     public static void main(String[] args) {
5         try {
6             Son s = new Son(50, 25);
7             s.display();
8         } catch (Wrongageexception e) {
9             System.out.println("Exception caught: " + e.getMessage());
10        }
11    }
12}
13
```

Problems @ Javadoc Declaration Console X Eclipse IDE for Java Developers 2025-12 Release



```
<terminated> InheritanceExceptionDemo [Java Application] C:\Users\trupt\p2\pool\plugins\org.eclipse.justj.openjdk.Fathers age:50
Father's Age: 50
Son's Age: 25
```