

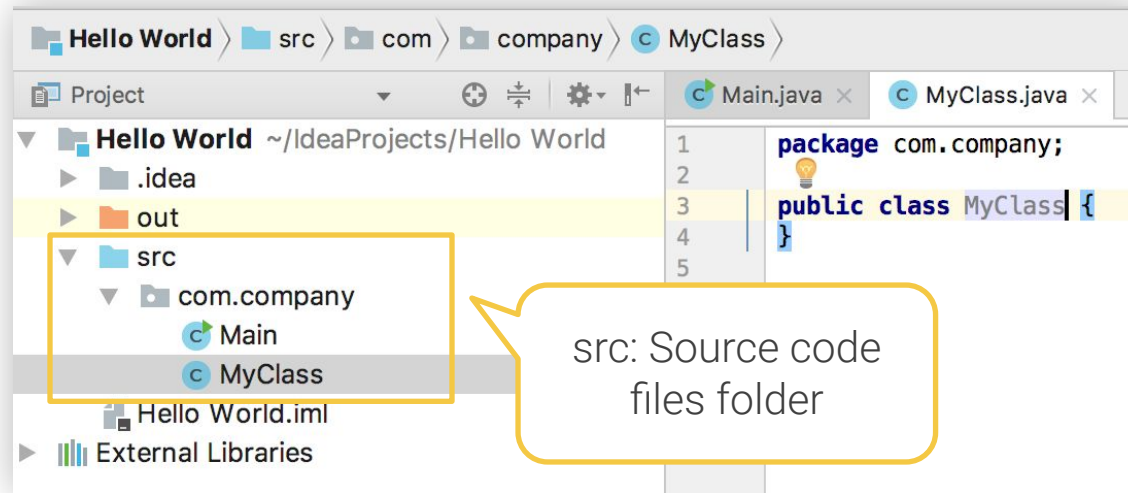


1. Packages

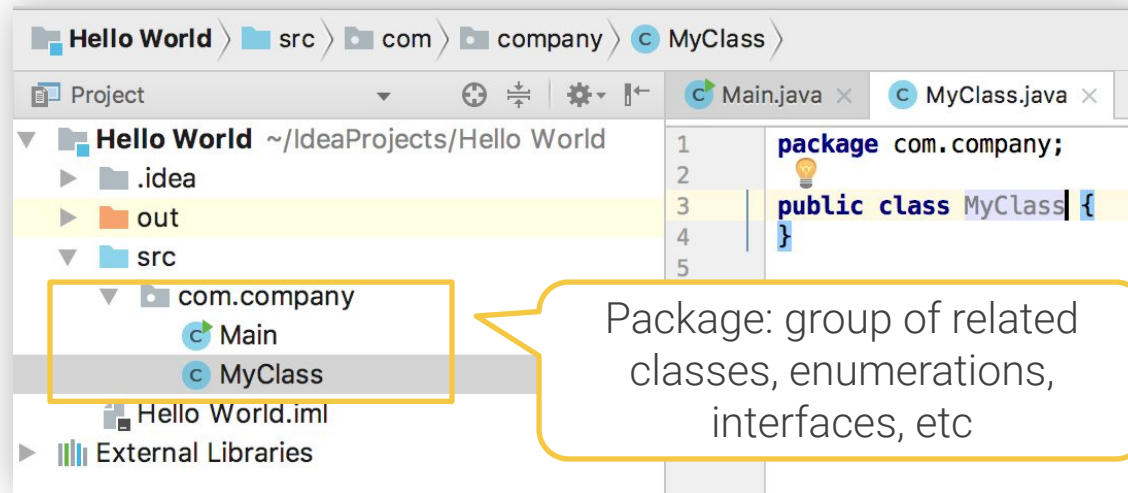
# Packages

Packages

# 1. Packages

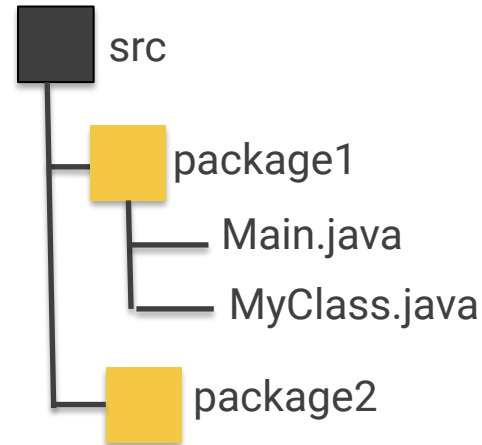


# 1. Packages



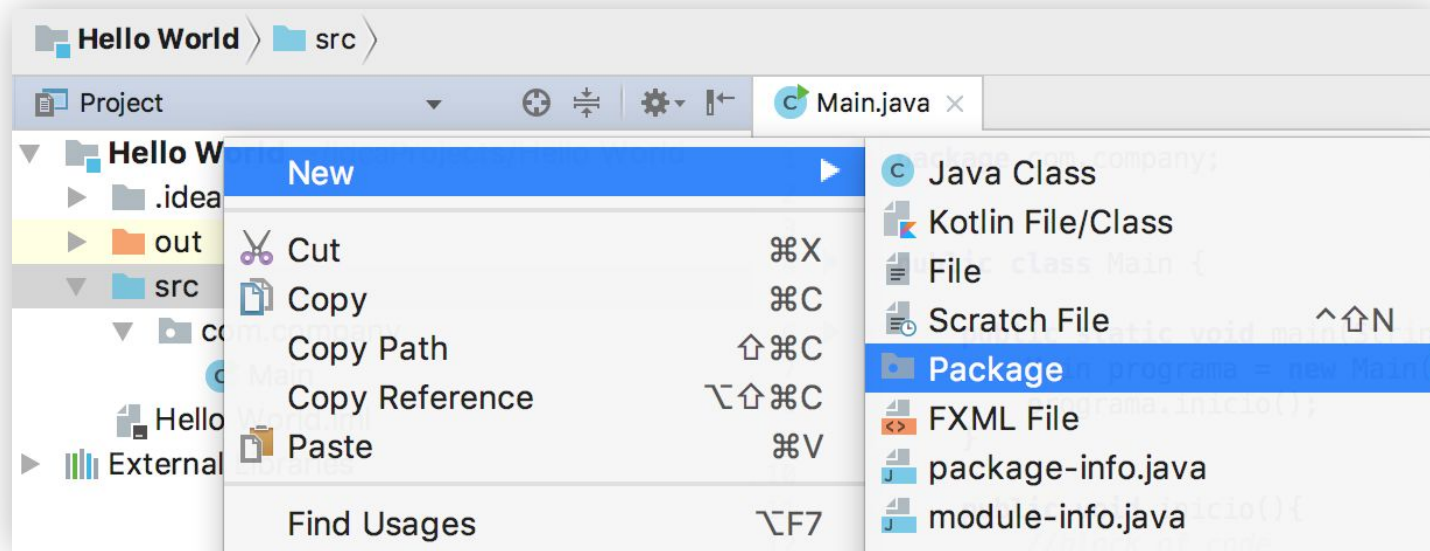
# 1. Packages

Packages are used in Java in order to prevent naming conflicts, to control access, to make searching/locating and usage of classes and code easier

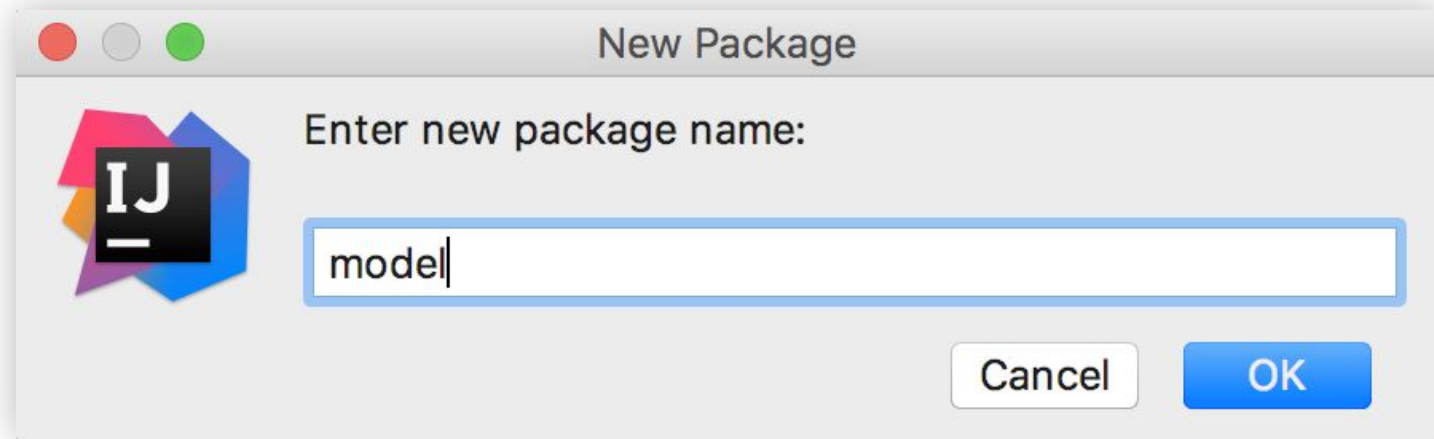


## Creating a package

---

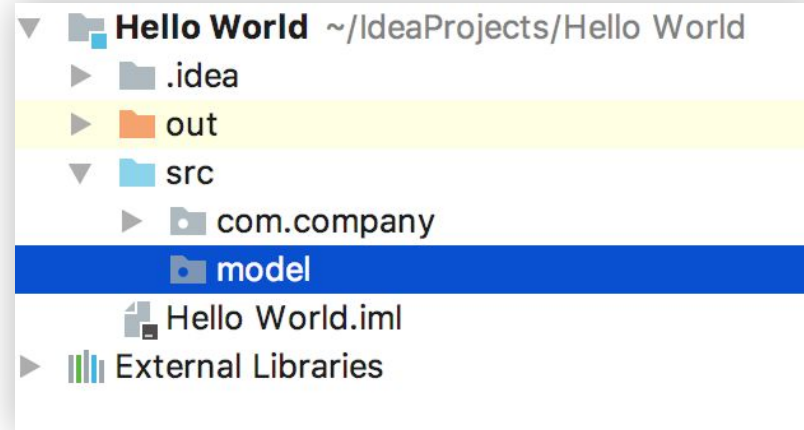


## Creating a package



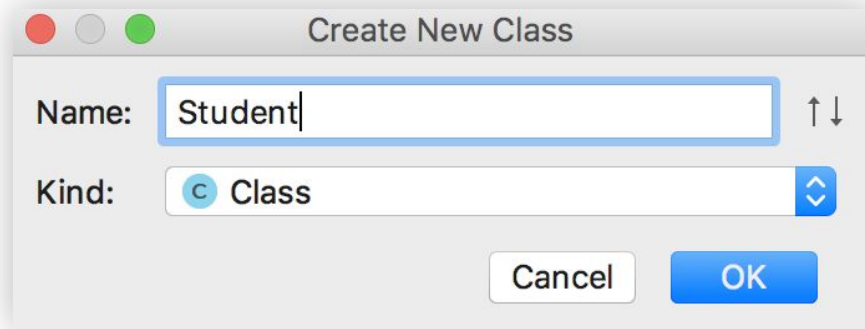
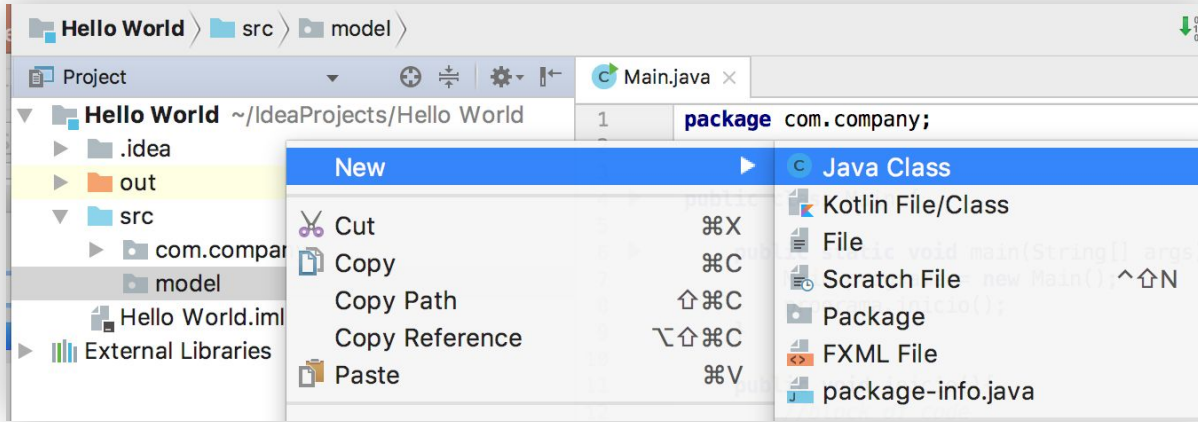
## Creating a package

---

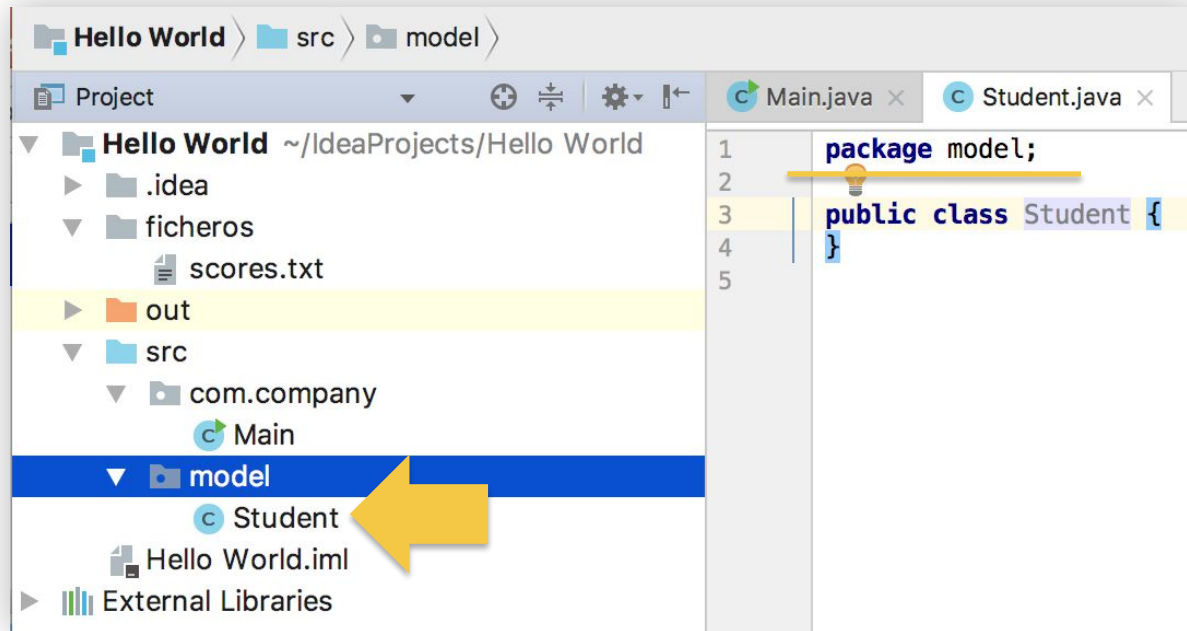




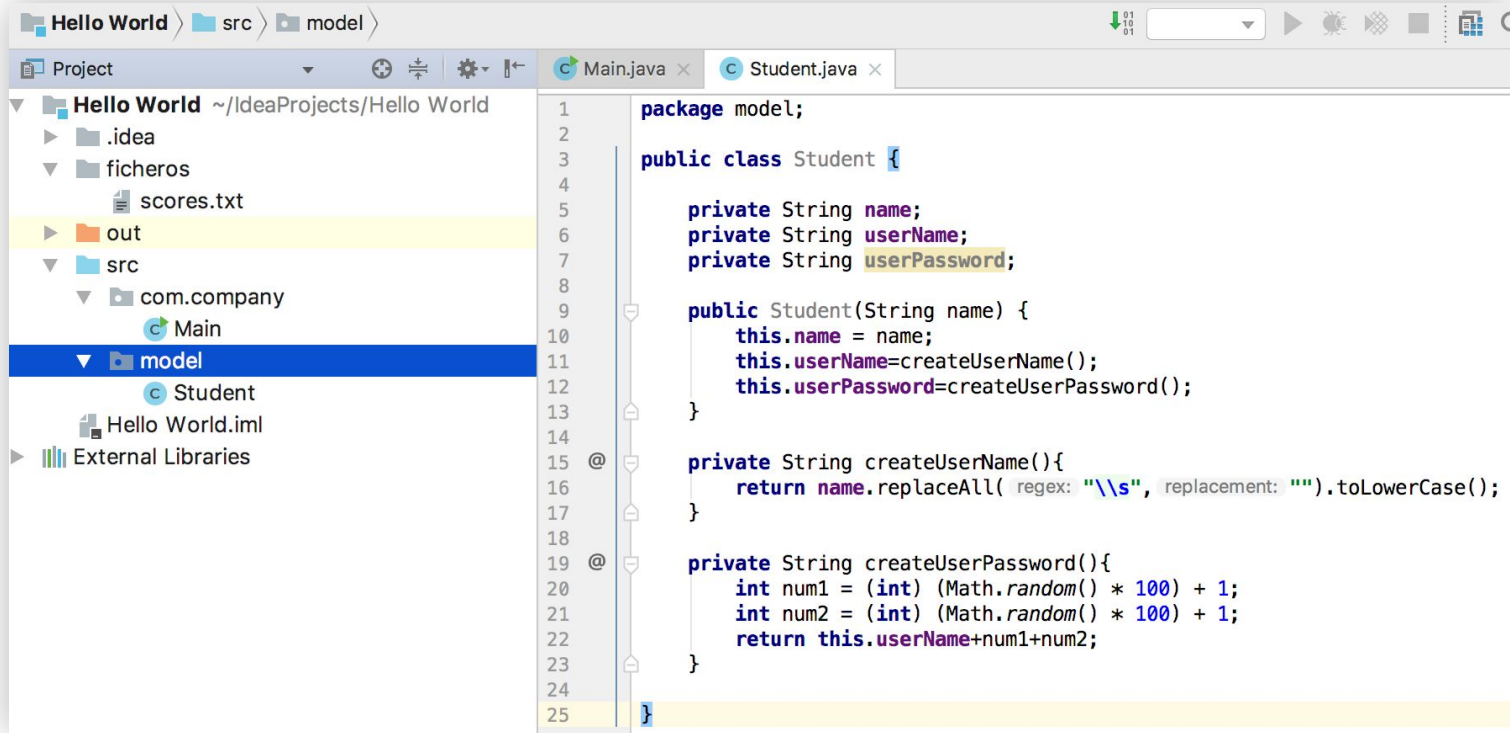
# 1. Packages



# 1. Packages

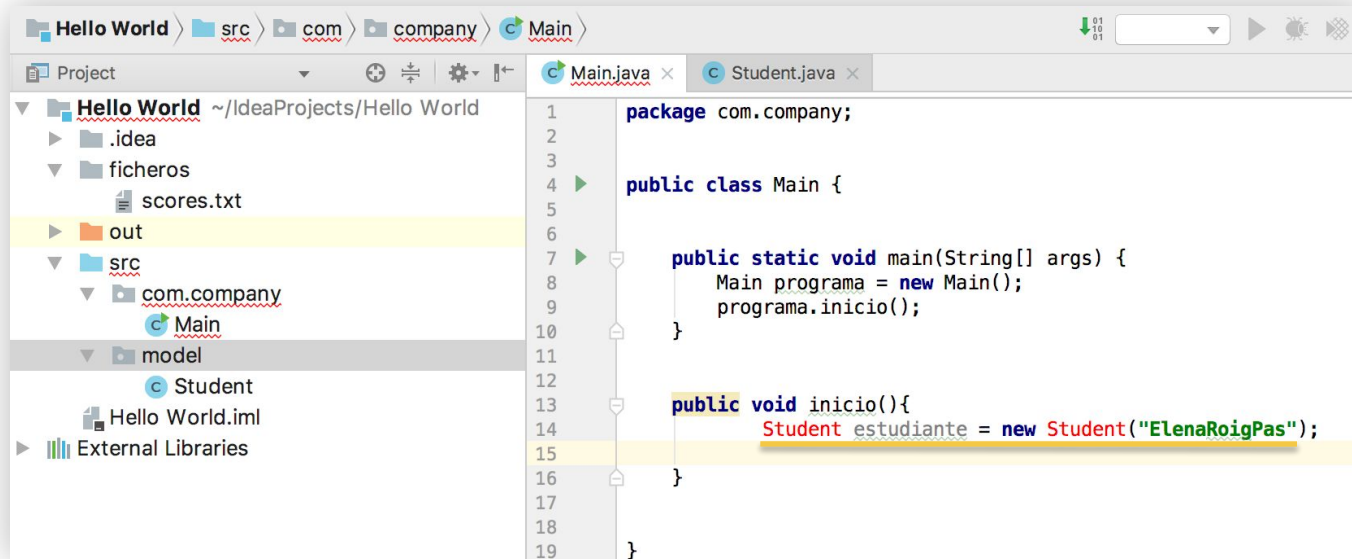


# 1. Packages



```
1 package model;
2
3 public class Student {
4
5     private String name;
6     private String userName;
7     private String userPassword;
8
9     public Student(String name) {
10         this.name = name;
11         this.userName=createUserName();
12         this.userPassword=createUserPassword();
13     }
14
15     private String createUserName(){
16         return name.replaceAll( regex: "\\s", replacement: "").toLowerCase();
17     }
18
19     private String createUserPassword(){
20         int num1 = (int) (Math.random() * 100) + 1;
21         int num2 = (int) (Math.random() * 100) + 1;
22         return this.userName+num1+num2;
23     }
24
25 }
```

# 1. Packages



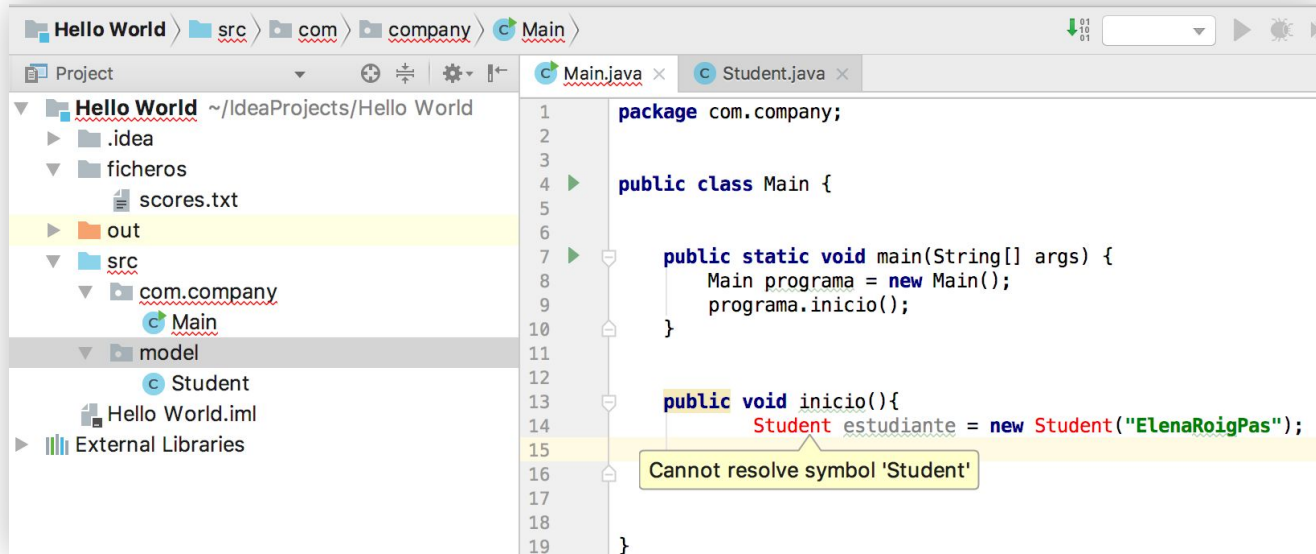
The screenshot shows an IDE window for a project named "Hello World". The left sidebar displays the project structure:

- Project: Hello World (~\IdeaProjects\Hello World)
  - .idea
  - ficheros
    - scores.txt
  - out
  - src
    - com.company
      - Main
    - model
      - Student
  - Hello World.iml
  - External Libraries

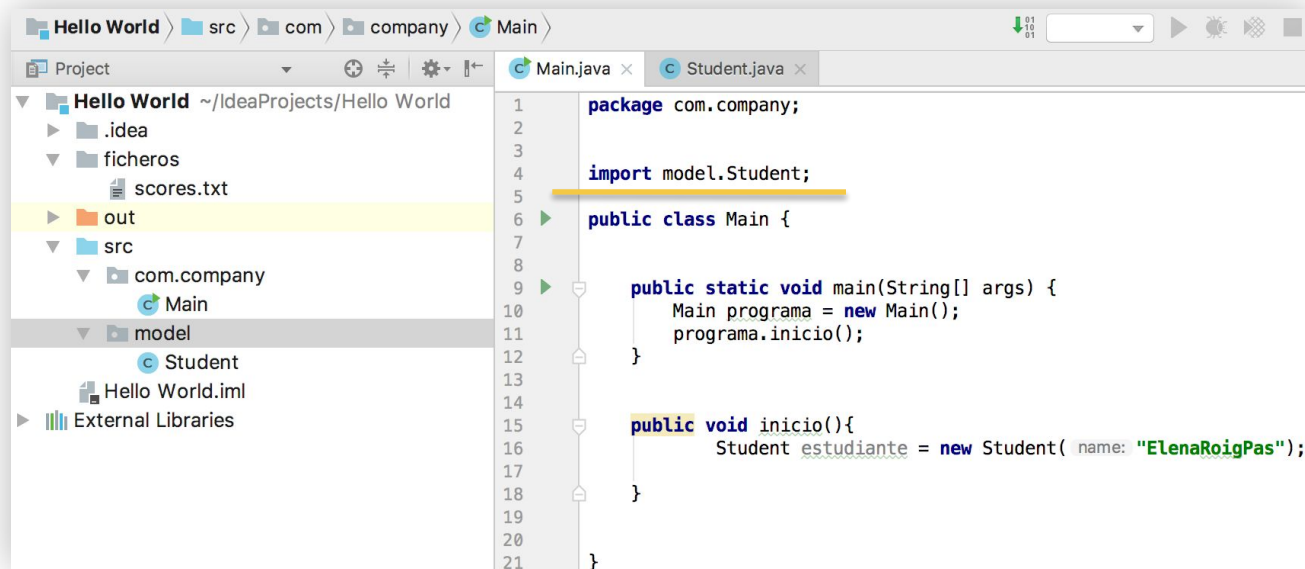
The main editor displays the code for `Main.java`:

```
1 package com.company;
2
3
4 public class Main {
5
6
7     public static void main(String[] args) {
8         Main programa = new Main();
9         programa.inicio();
10    }
11
12
13    public void inicio(){
14        Student estudiante = new Student("ElenaRoigPas");
15    }
16
17
18
19 }
```

# 1. Packages



# 1. Packages



```
1 package com.company;
2
3
4 import model.Student;
5
6 public class Main {
7
8
9     public static void main(String[] args) {
10         Main programa = new Main();
11         programa.inicio();
12     }
13
14
15     public void inicio(){
16         Student estudiante = new Student( name: "ElenaRoigPas");
17     }
18
19
20
21 }
```

“Para el éxito, la actitud es tan importante como la habilidad.”

*Walter Scott, escritor escocés*

