Programming Fundamentals 1

Produced by

Mr. Dave Drohan (david.drohan@setu.ie)
Dr. Siobhán Drohan
Ms. Mairead Meagher

Department of Computing & Mathematics
South East Technological University
Waterford, Ireland

setu.ie

IntelliJ and Spot

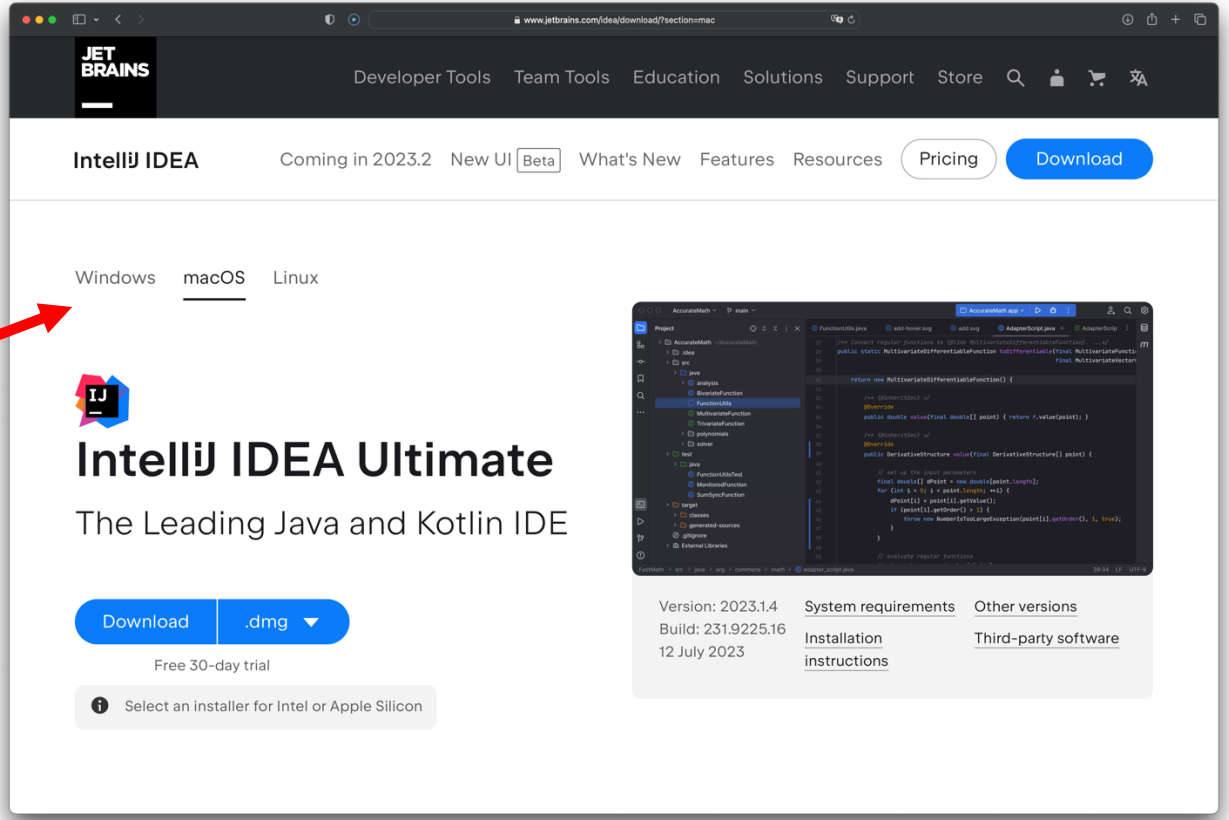
Basic Spot Class in our new IDE

Agenda

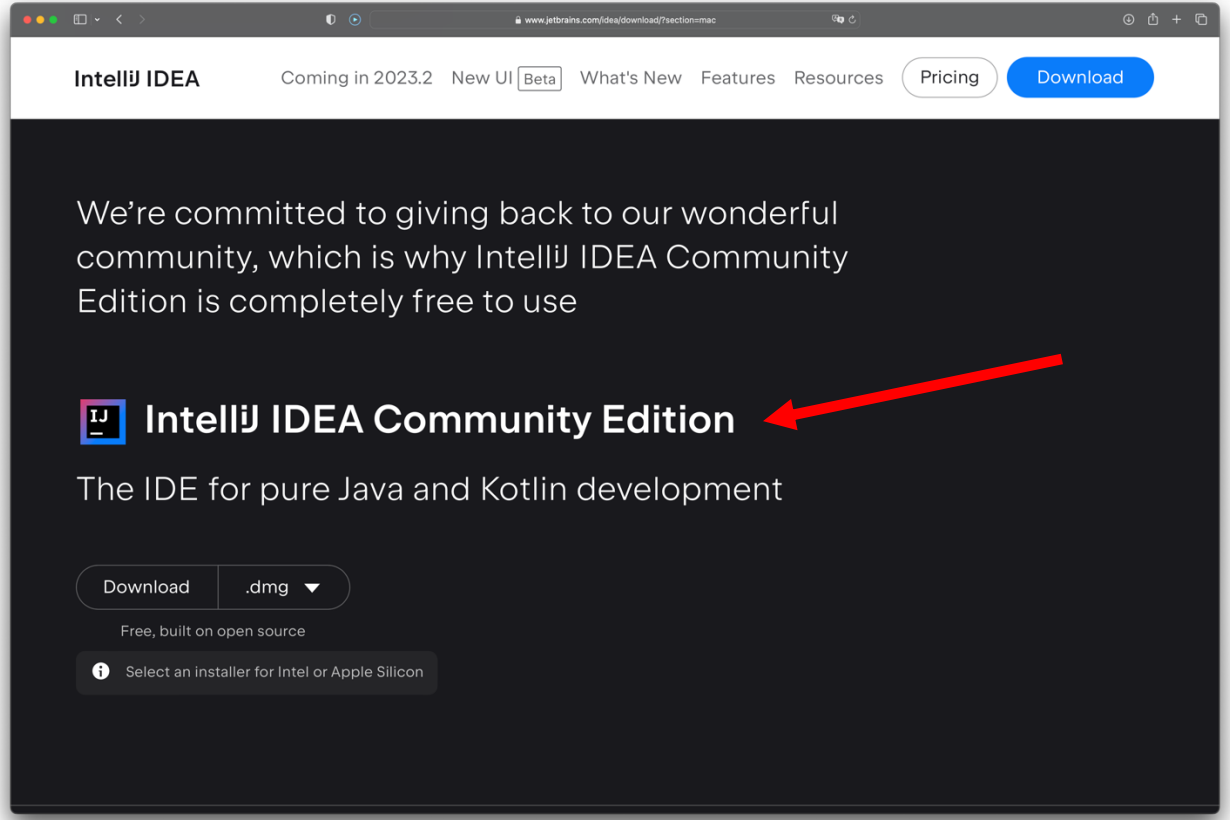
- The IntelliJ IDE
- New Project Setup
- Basic Spot Class

The IntelliJ IDE

IntelliJ - An industry standard IDE

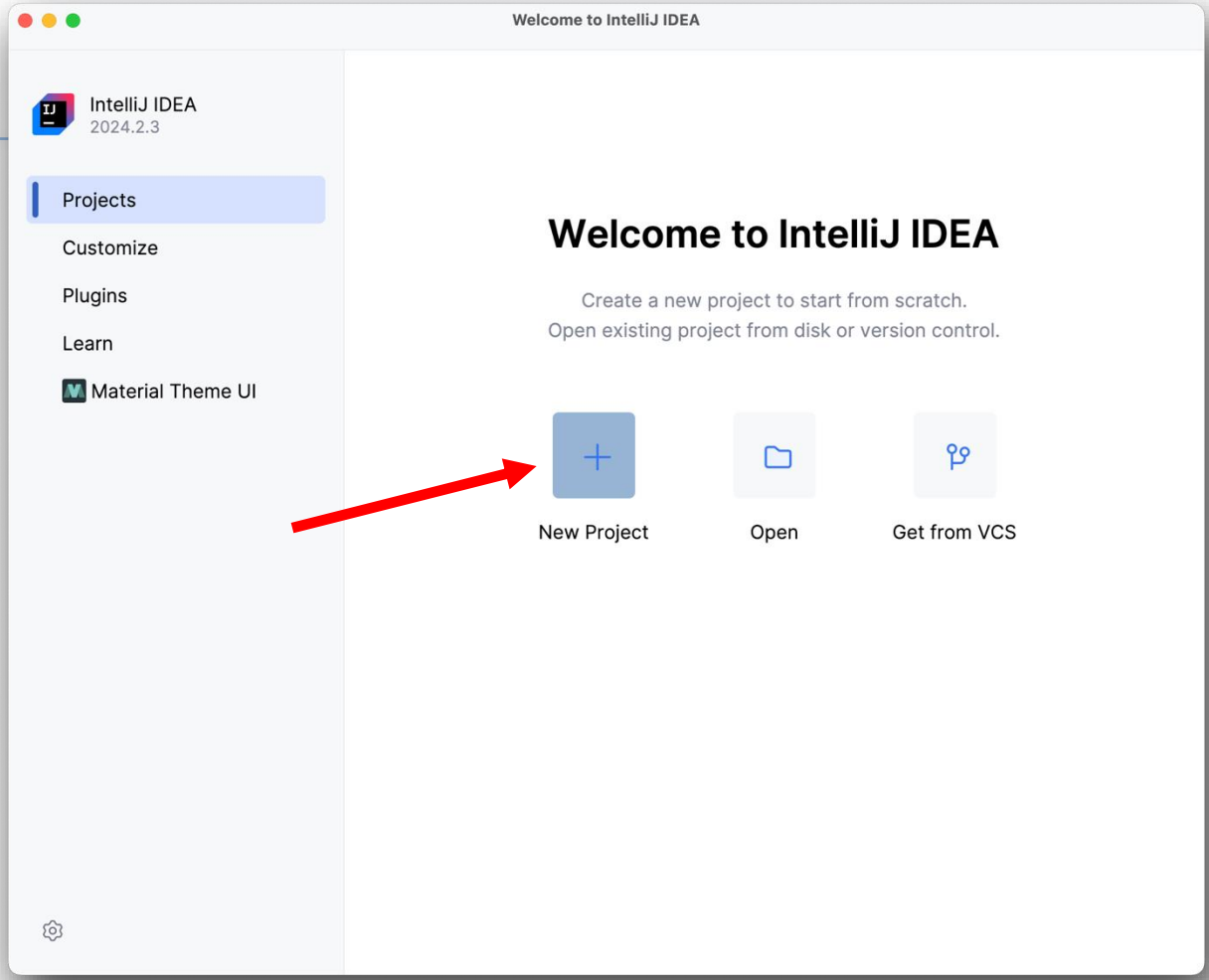


IntelliJ - An industry standard IDE

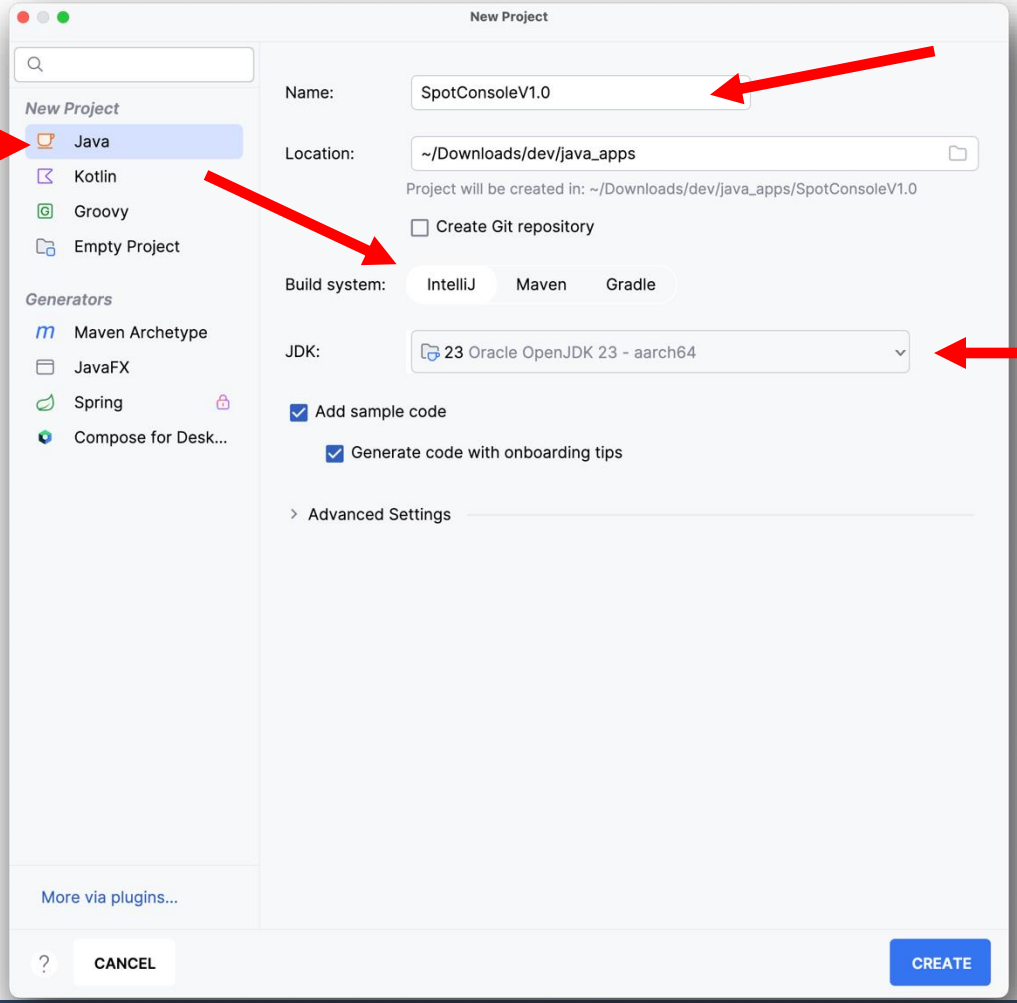


New Project Setup

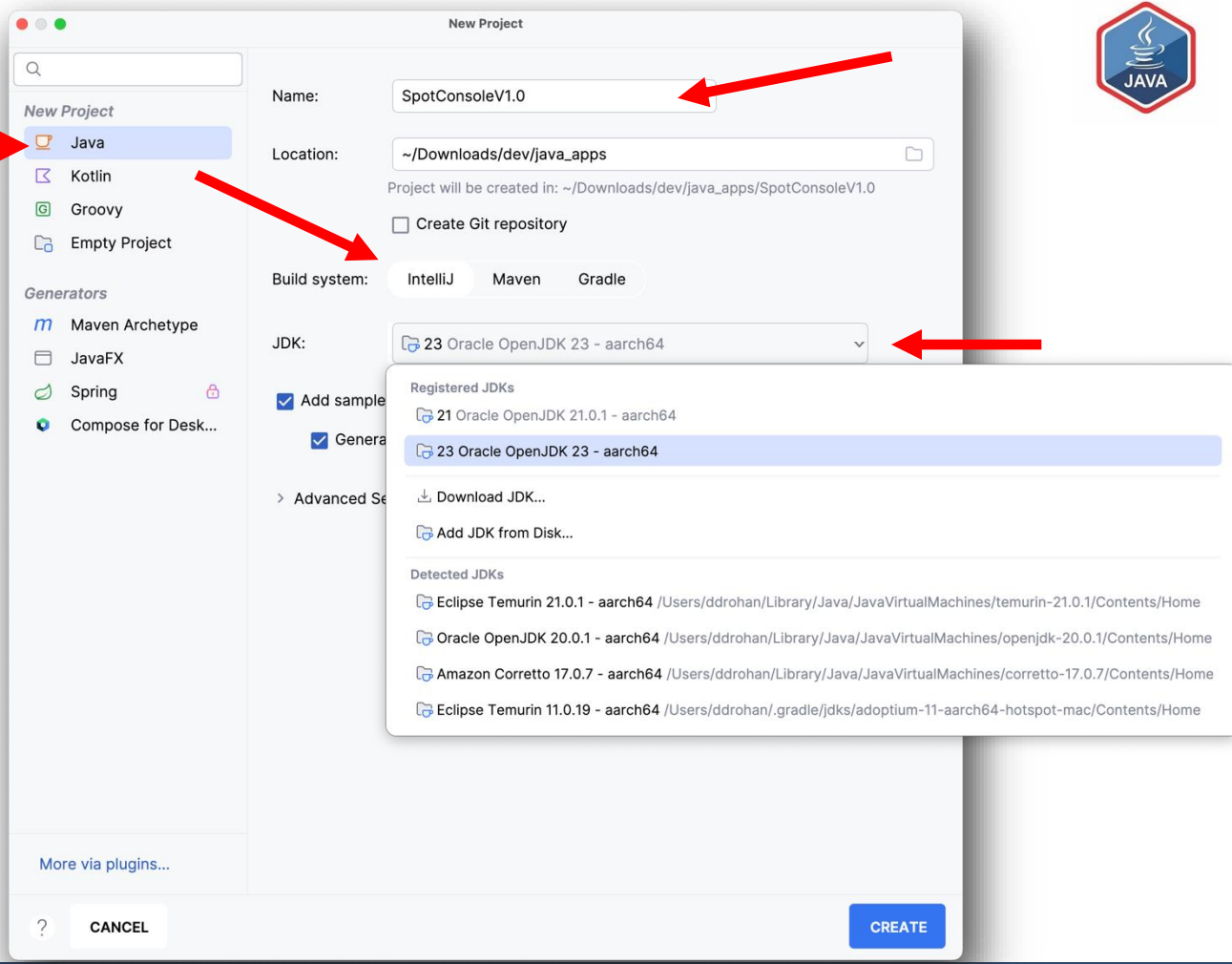
Launch IntelliJ



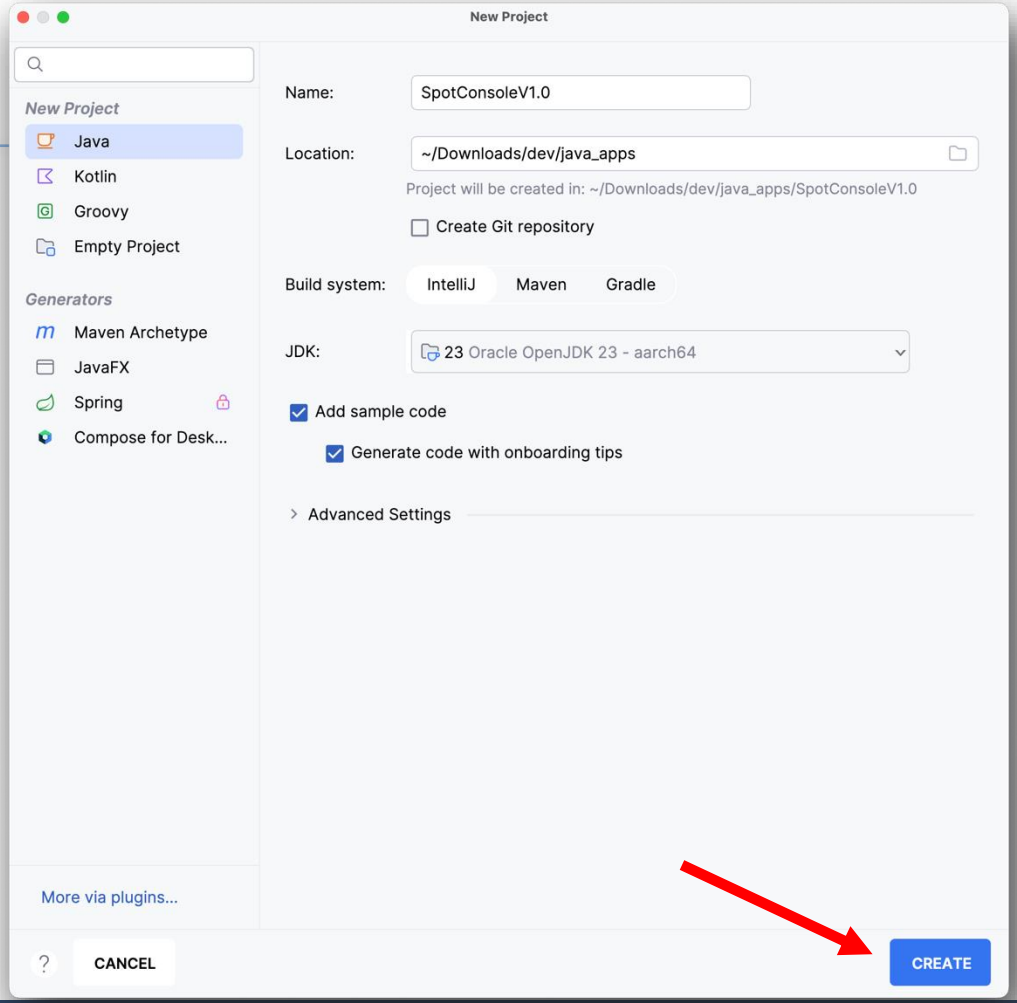
New Java Project



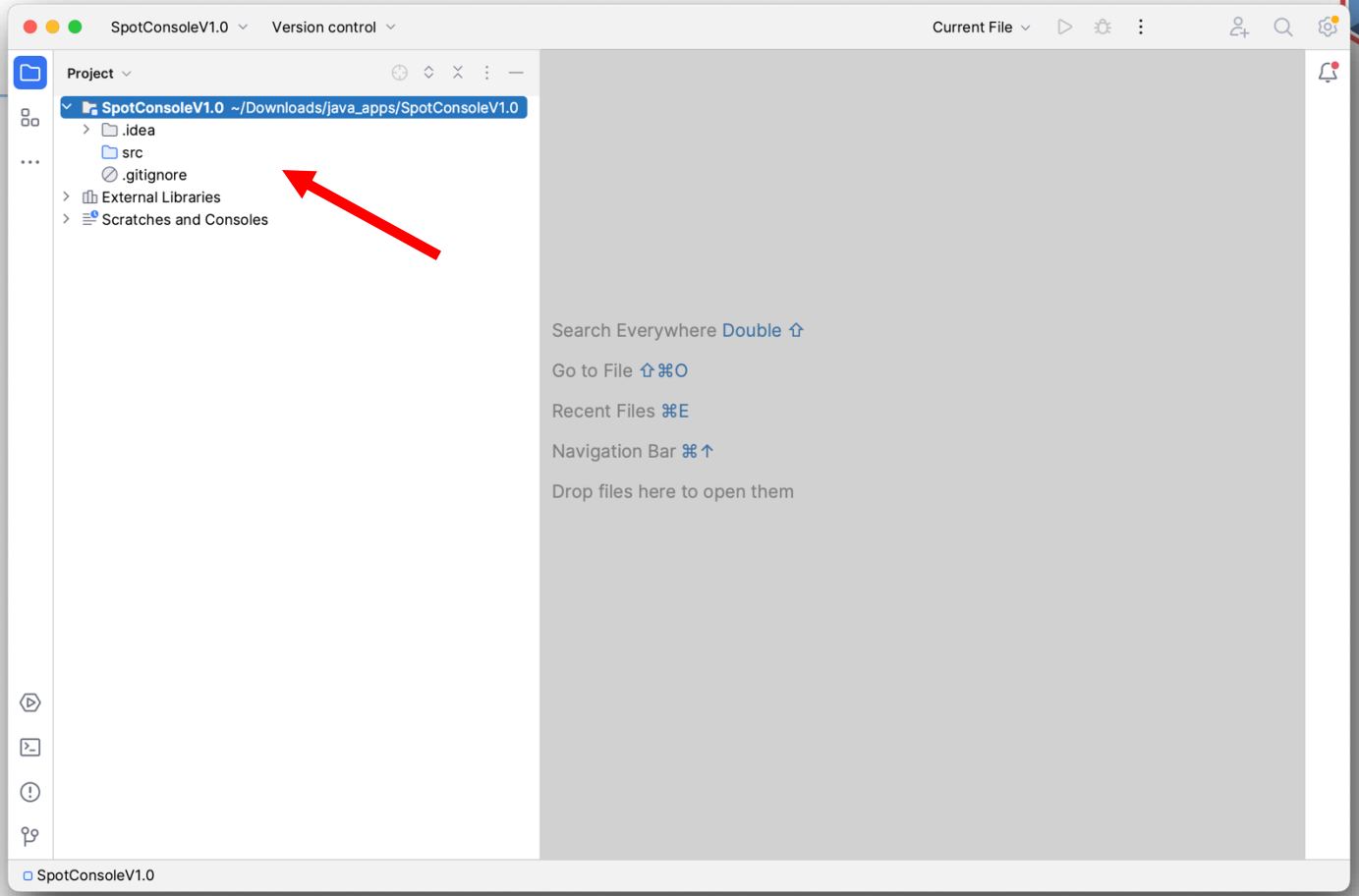
New Java Project



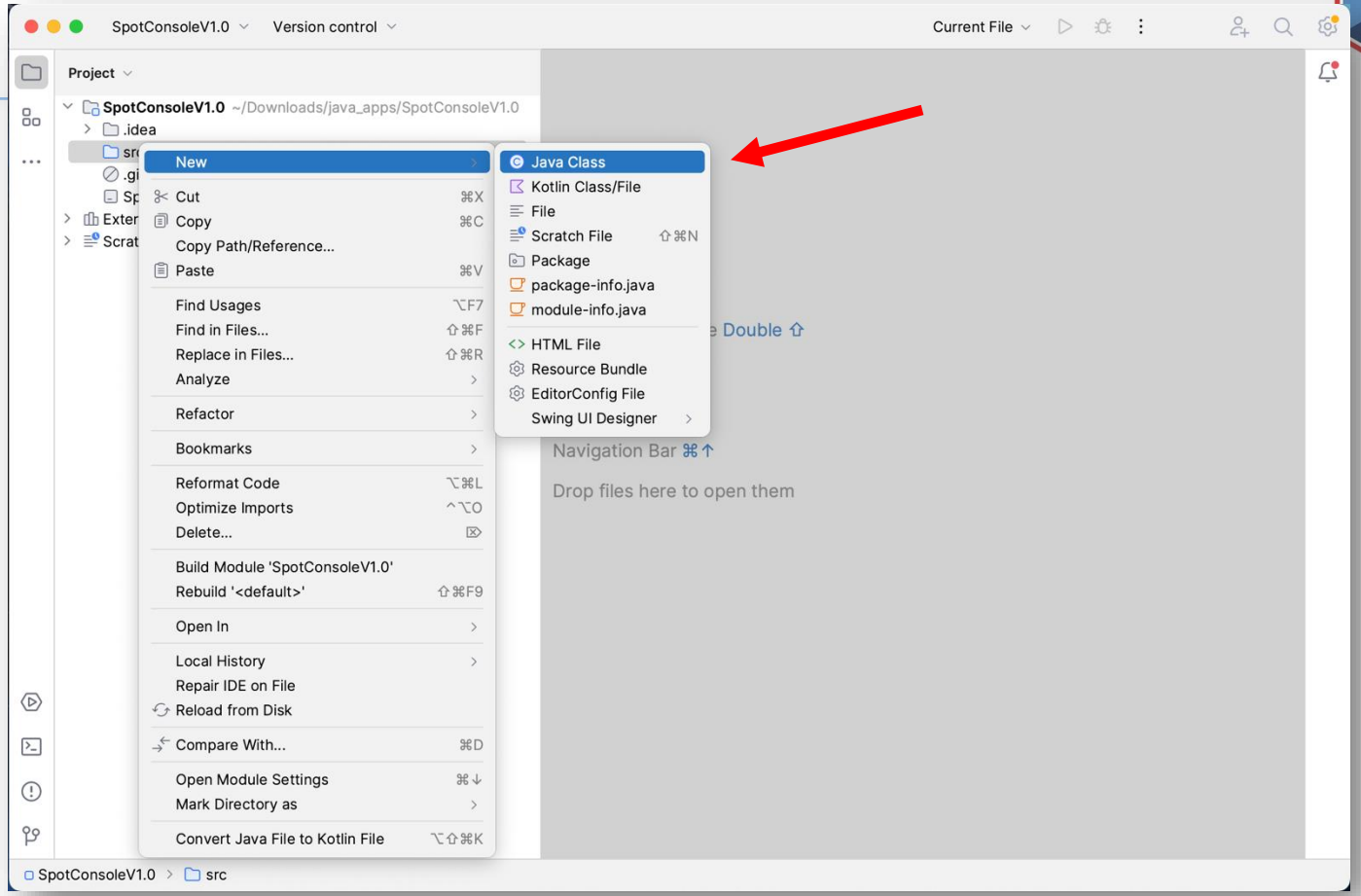
New Java Project



New Project

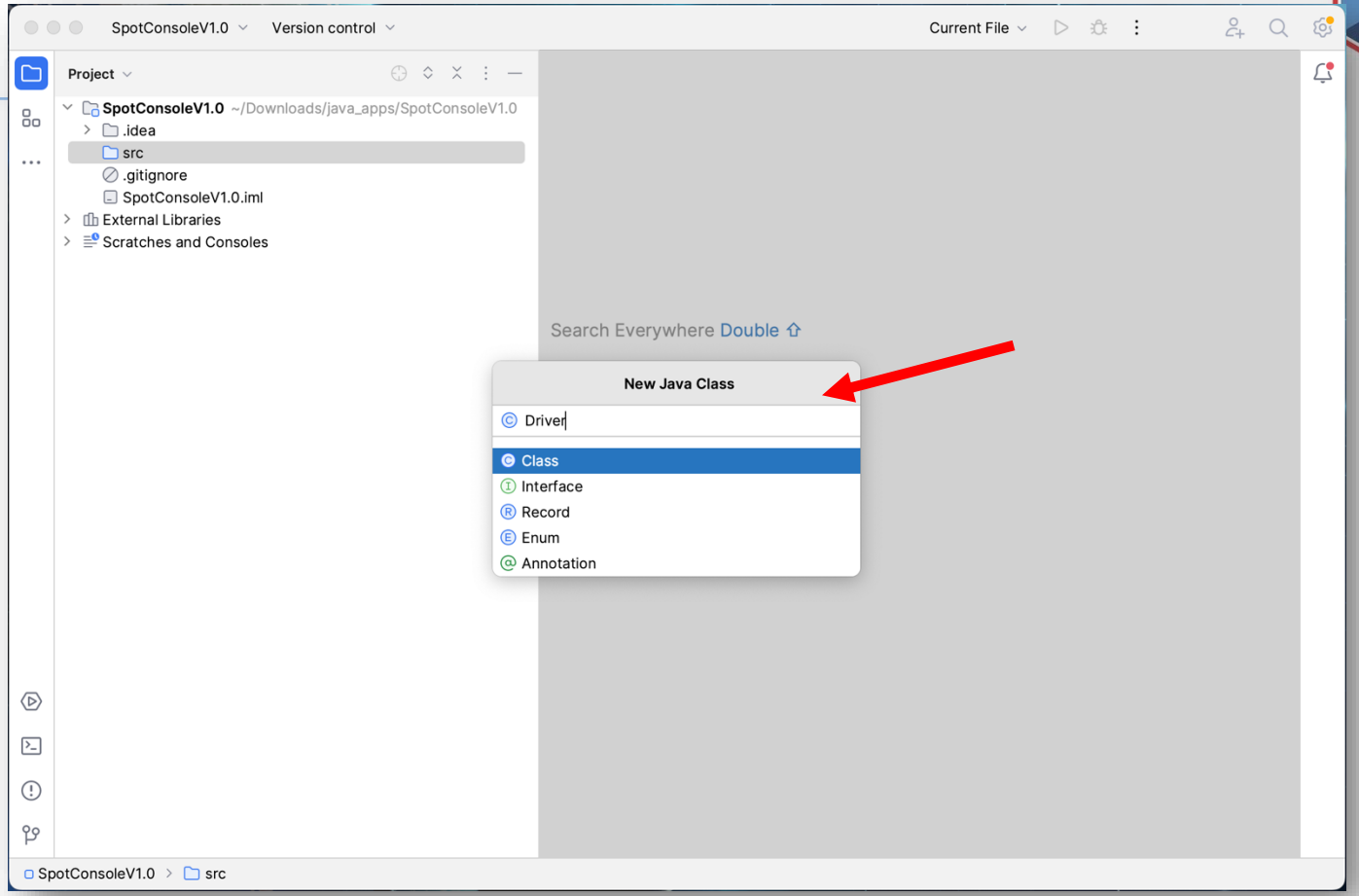

SpotConsoleV1.0
Version control
Current File
Project
SpotConsoleV1.0 ~/Downloads/java_apps/SpotConsoleV1.0
.idea
src
.gitignore
External Libraries
Scratches and Consoles
Search Everywhere Double ⇧
Go to File ⇧⌘O
Recent Files ⌘E
Navigation Bar ⌘↑
Drop files here to open them
SpotConsoleV1.0

Create New Class



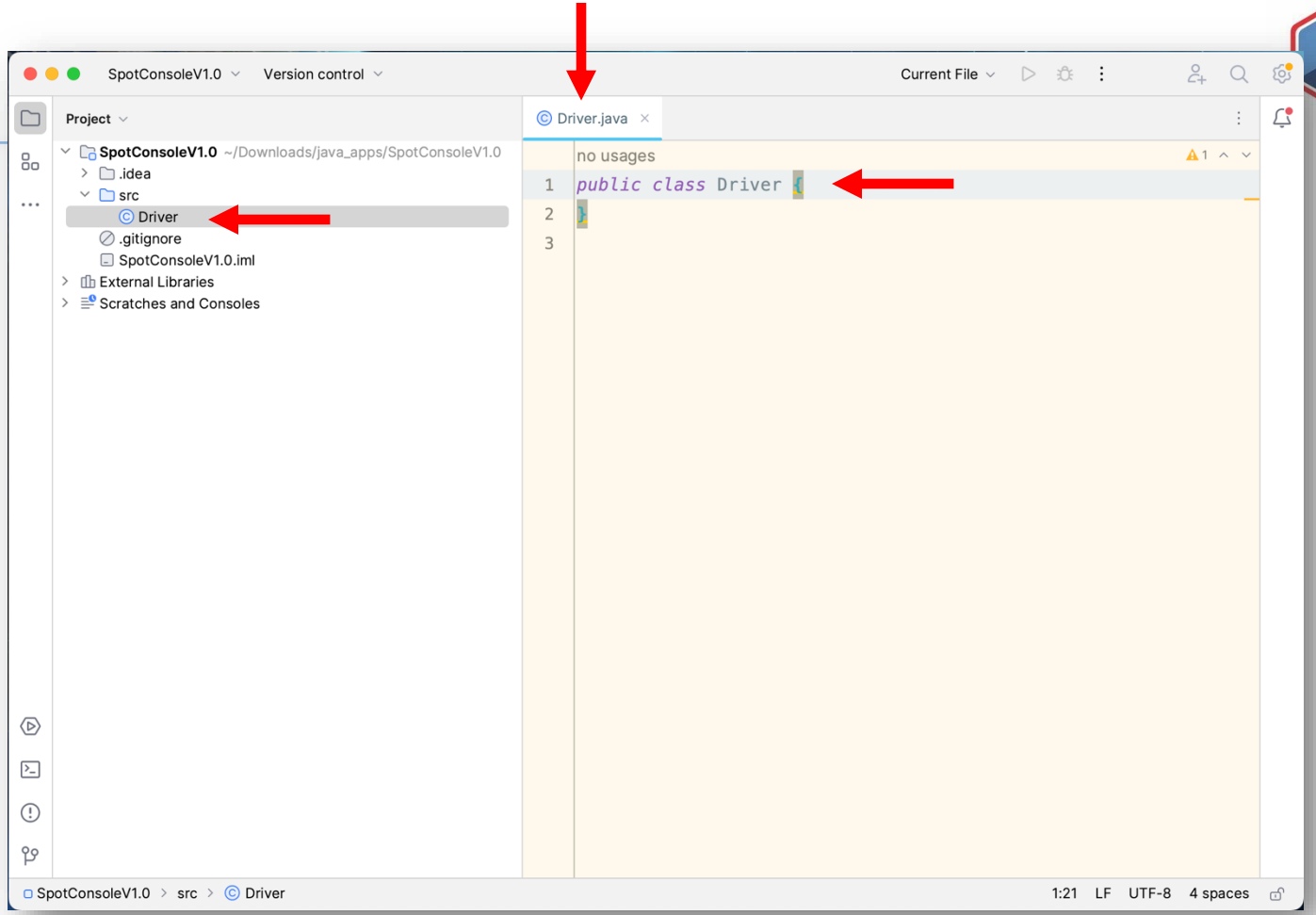
Create New Class

Driver

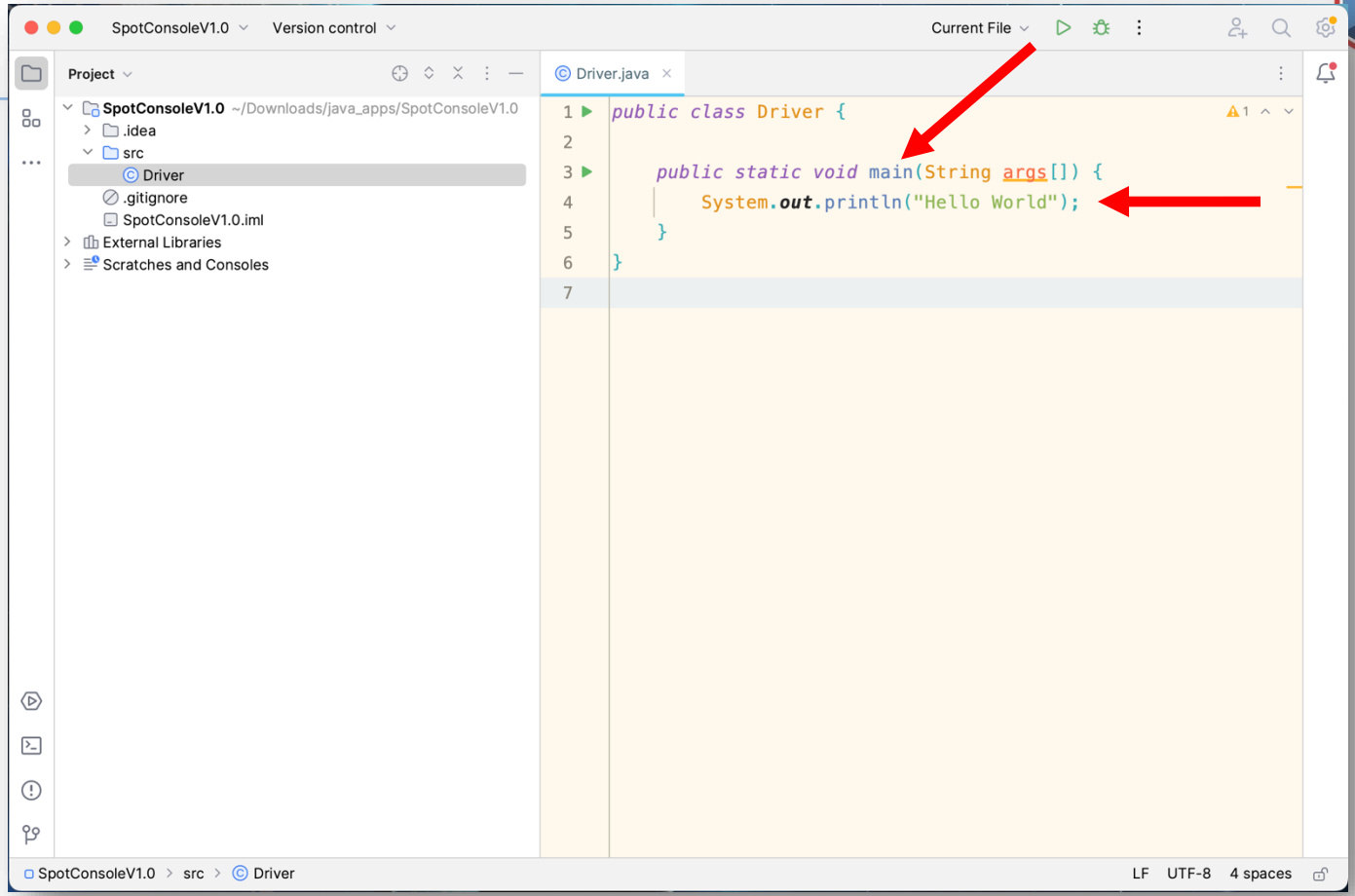


Create New Class

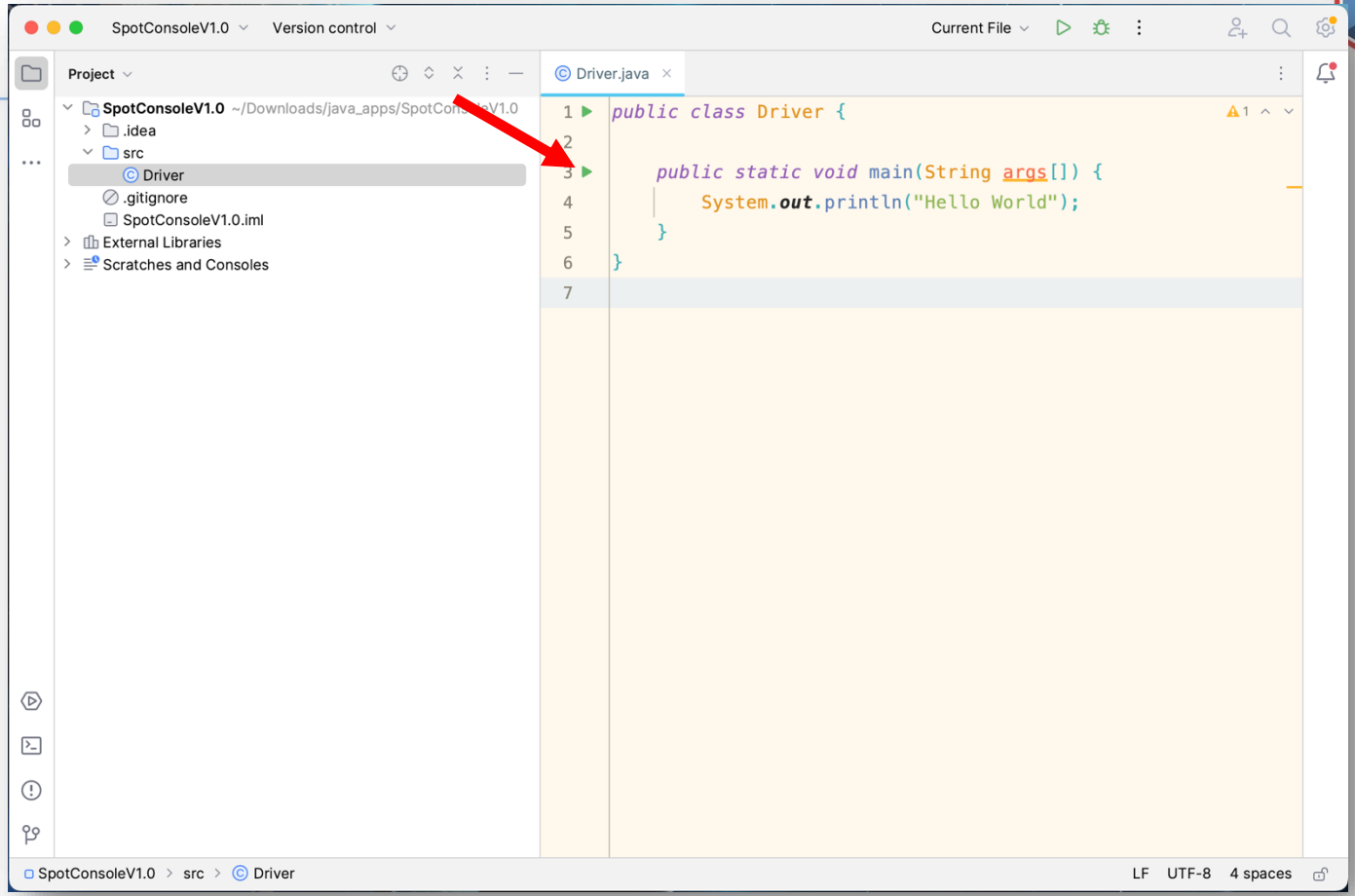
Driver



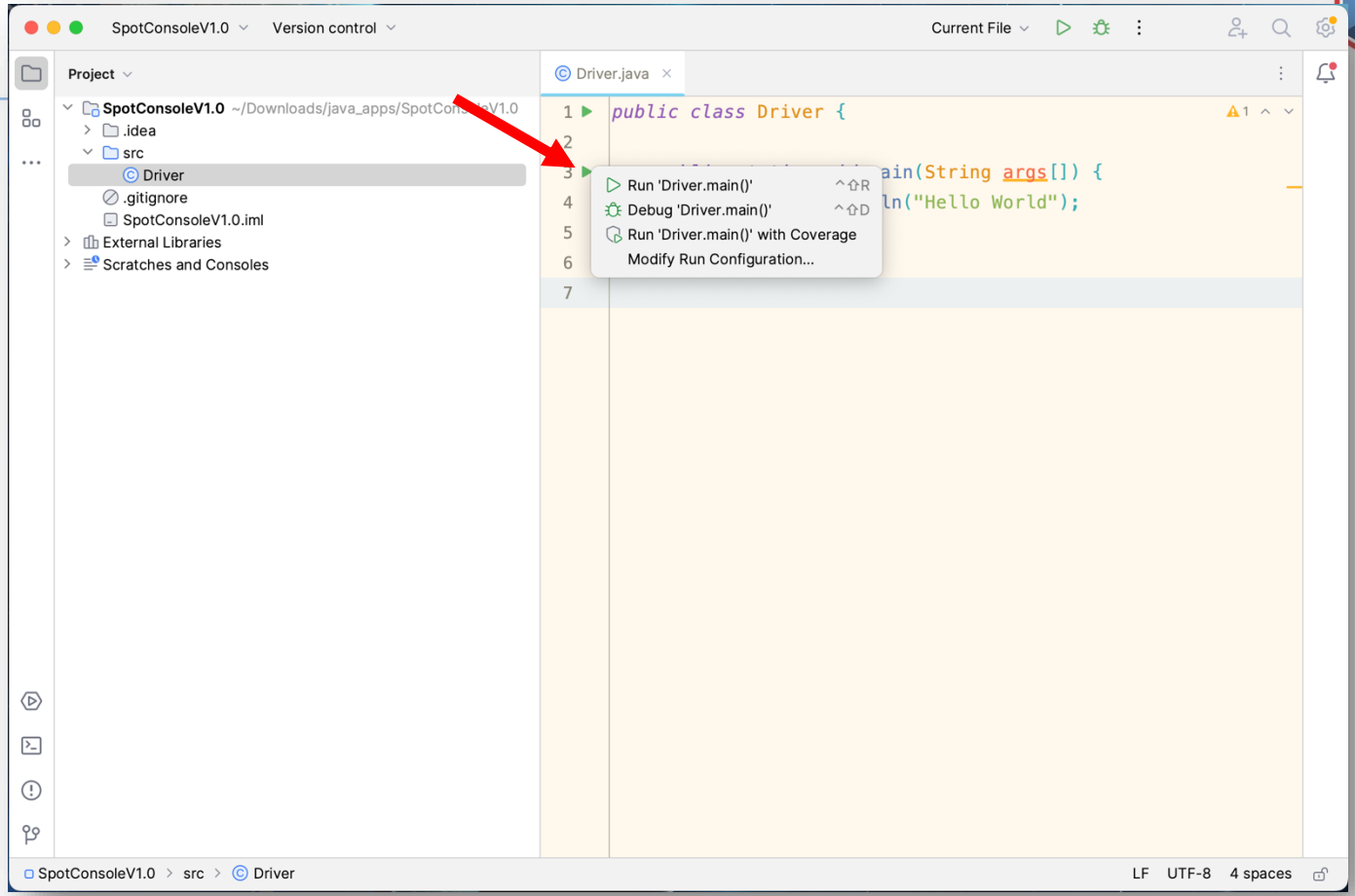
main()
method


SpotConsoleV1.0
Version control
Current File
Project
SpotConsoleV1.0 ~/Downloads/java_apps/SpotConsoleV1.0
.idea
src
Driver
.gitignore
SpotConsoleV1.0.iml
External Libraries
Scratches and Consoles
Driver.java
1 public class Driver {
2
3 public static void main(String args[]) {
4 System.out.println("Hello World");
5 }
6 }
7
SpotConsoleV1.0 › src › Driver
LF UTF-8 4 spaces

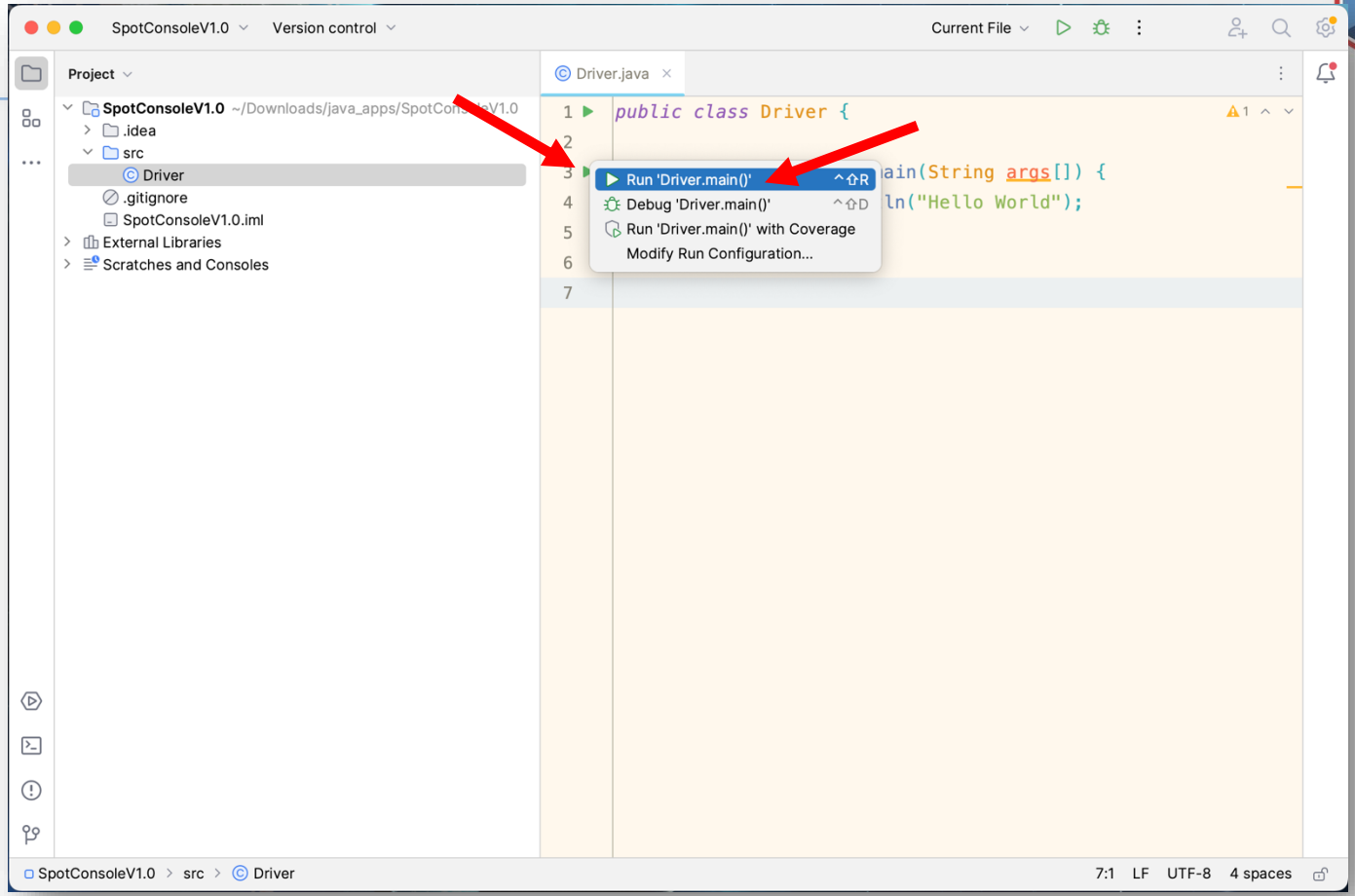
Run App


SpotConsoleV1.0
Version control
Current File
Project
SpotConsoleV1.0 ~/Downloads/java_apps/SpotConsoleV1.0
.idea
src
Driver
.gitignore
SpotConsoleV1.0.iml
External Libraries
Scratches and Consoles
Driver.java
1 public class Driver {
2
3 public static void main(String args[]) {
4 System.out.println("Hello World");
5 }
6 }
7
SpotConsoleV1.0 › src › Driver
LF UTF-8 4 spaces

Run App

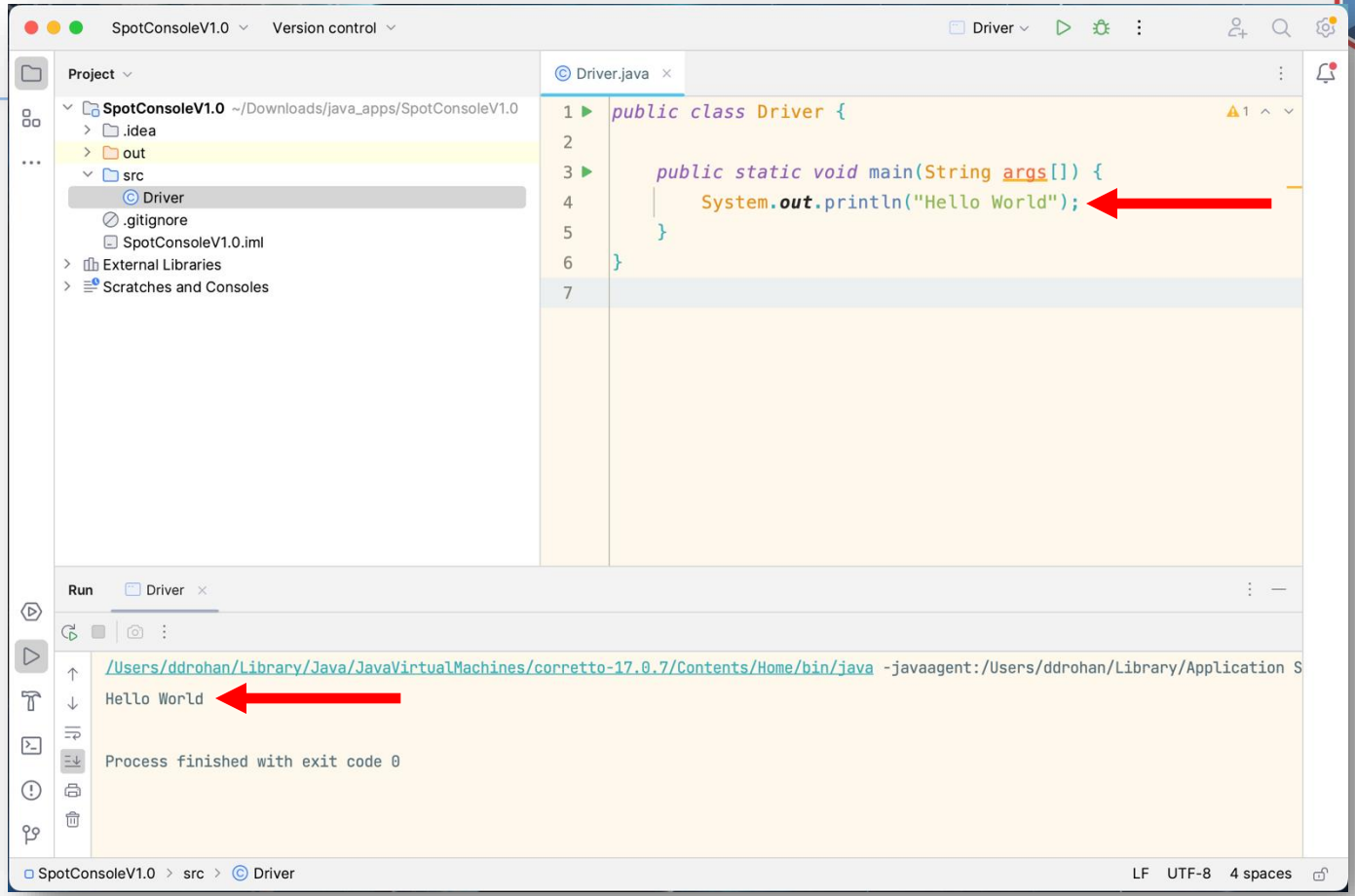

SpotConsoleV1.0
Version control
Current File
Project
SpotConsoleV1.0
.idea
src
Driver
.gitignore
SpotConsoleV1.0.iml
External Libraries
Scratches and Consoles
Driver.java
public class Driver {
Run 'Driver.main()'
Debug 'Driver.main()'
Run 'Driver.main()' with Coverage
Modify Run Configuration...
SpotConsoleV1.0 › src › Driver
LF
UTF-8
4 spaces

Run App


SpotConsoleV1.0
Version control
Current File
Project
SpotConsoleV1.0
.idea
src
Driver
.gitignore
SpotConsoleV1.0.iml
External Libraries
Scratches and Consoles
Driver.java
public class Driver {
Run 'Driver.main()'
Debug 'Driver.main()'
Run 'Driver.main()' with Coverage
Modify Run Configuration...
SpotConsoleV1.0 › src › Driver
7:1
LF
UTF-8
4 spaces

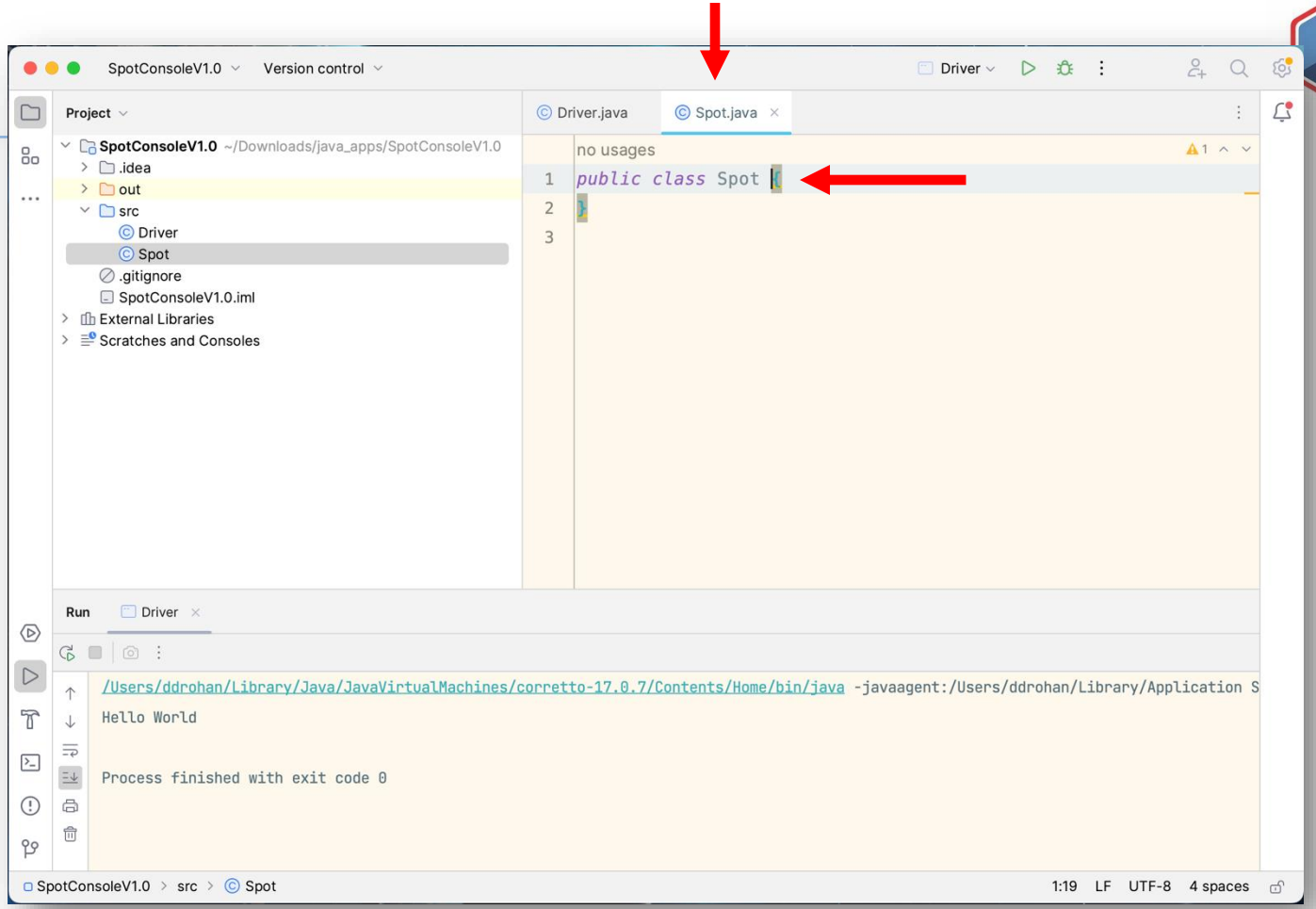
Run App

Console Output



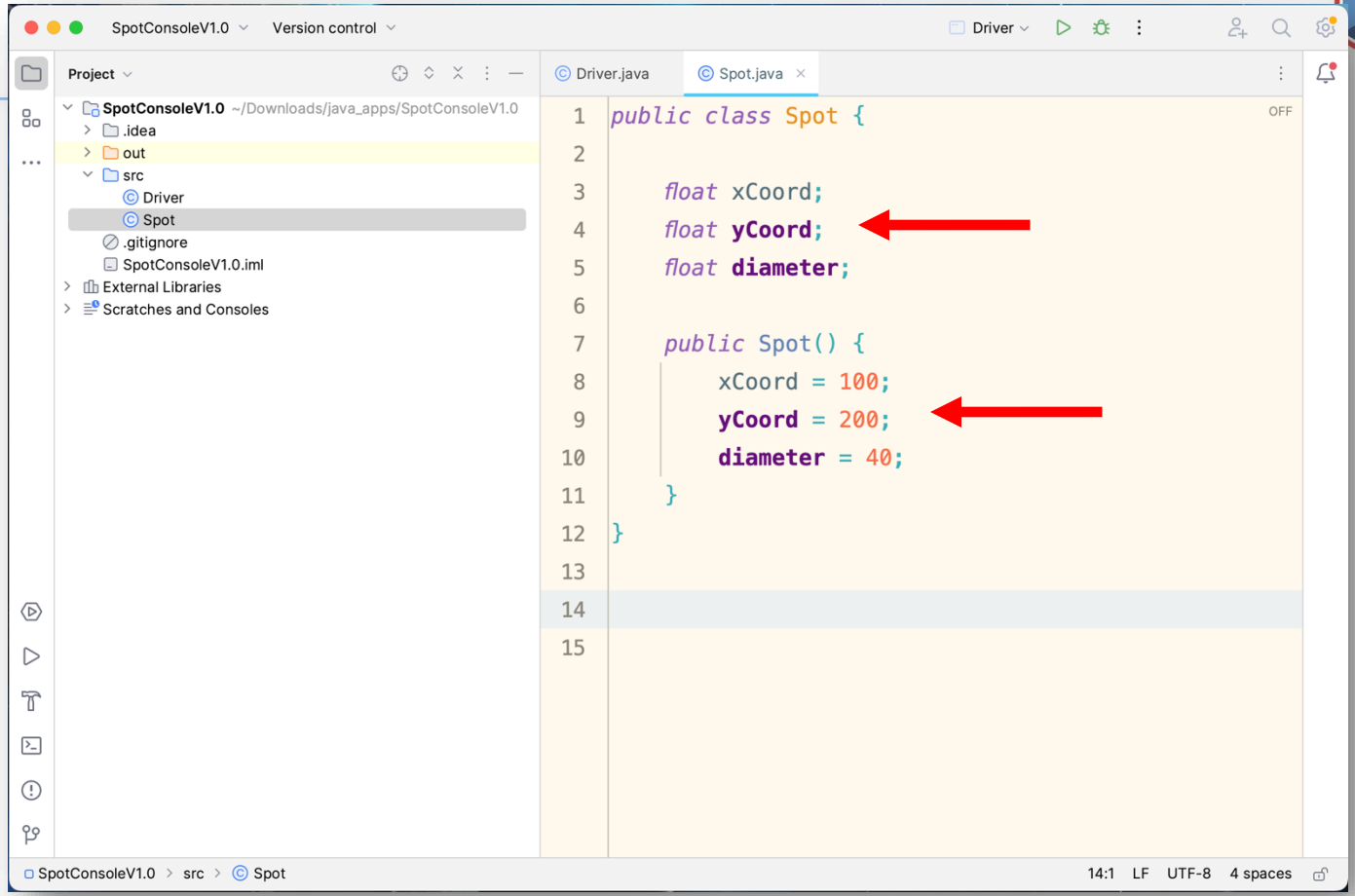
Basic Spot Class

New Spot Class



Three fields:
- xCoord
- yCoord
- diameter

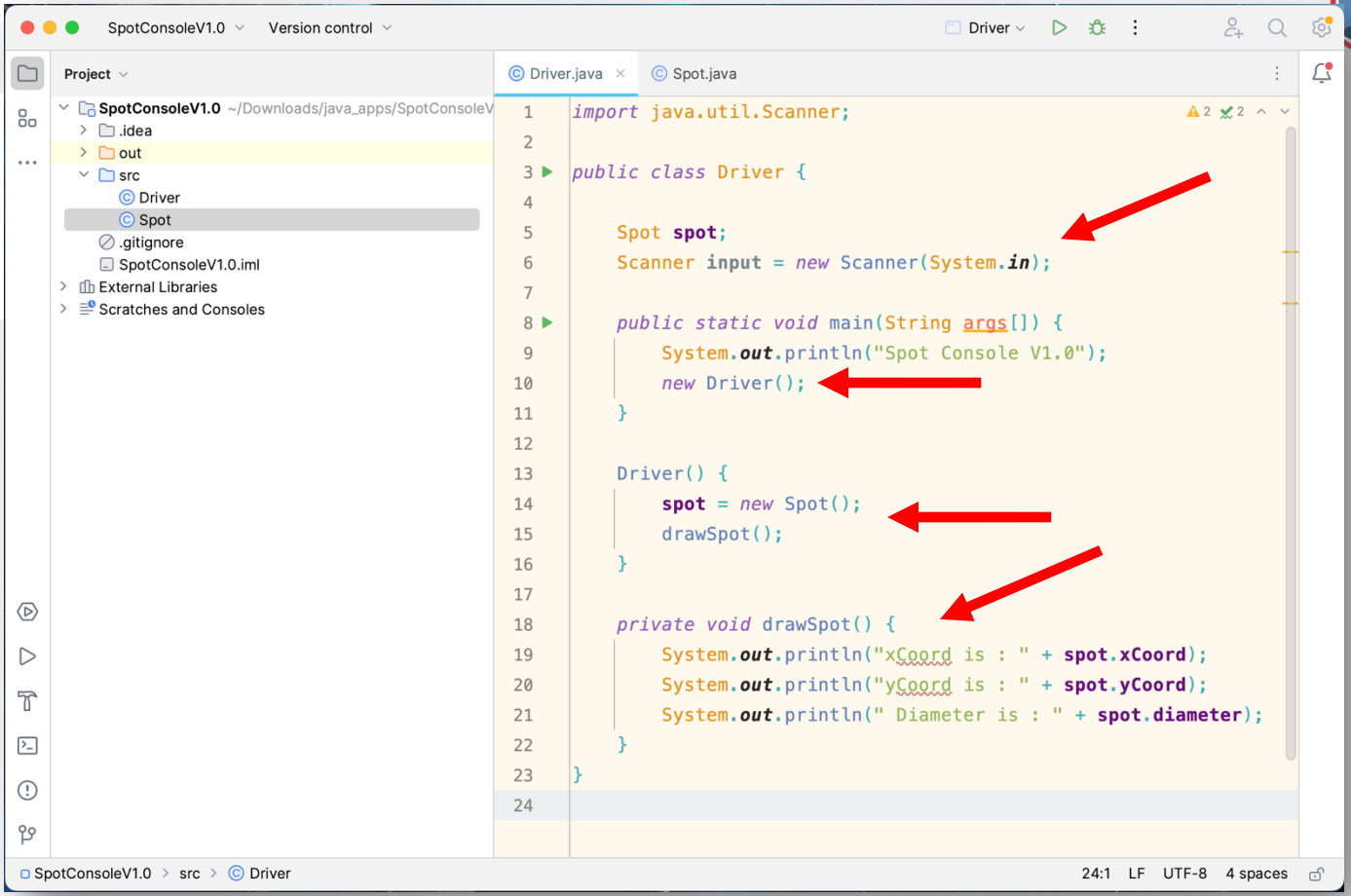
Default constructor to initialise the fields with starting data



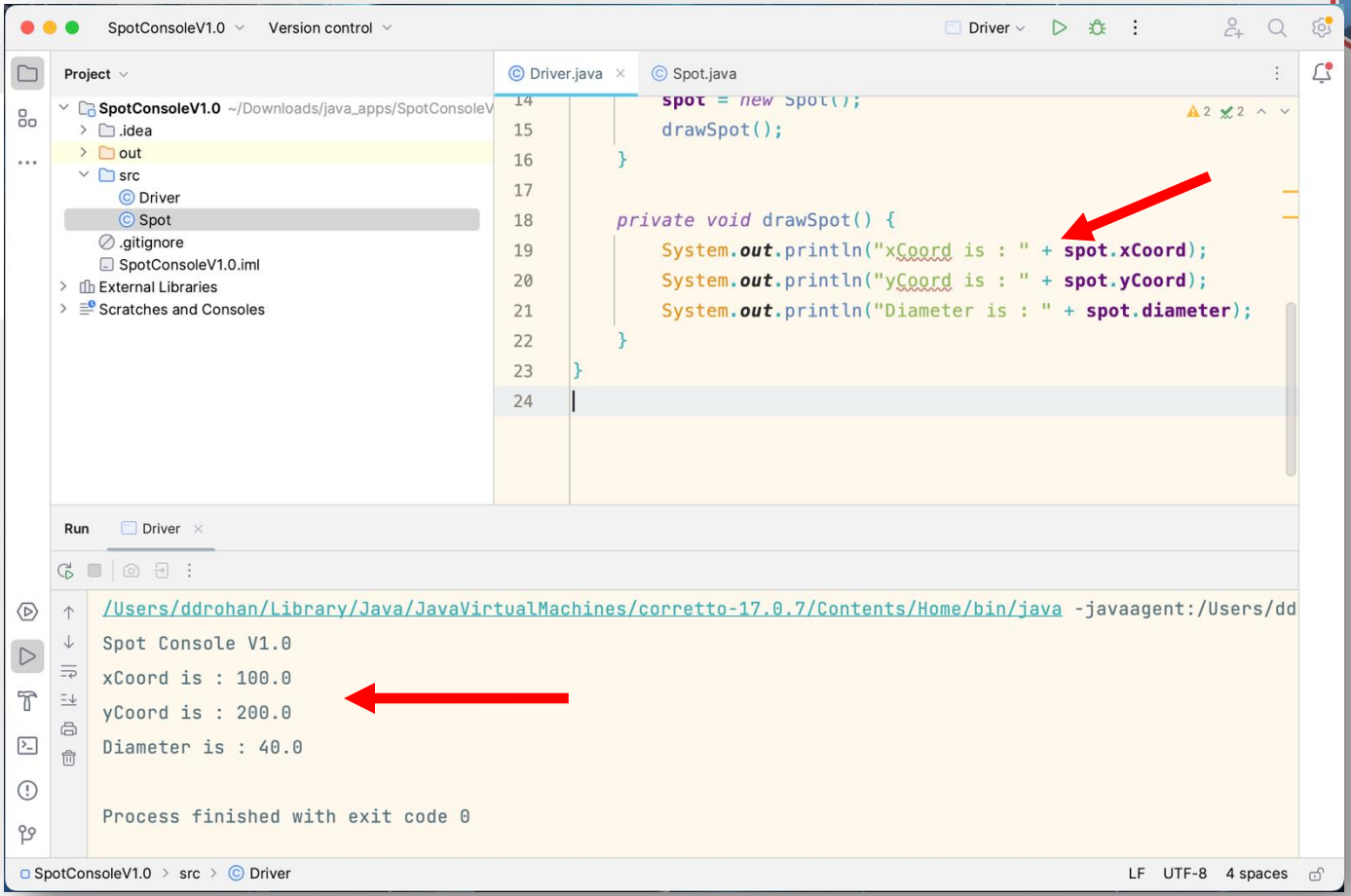
New Driver Class

Includes the **main()** method

main() method calls the **Driver** constructor



New Driver Class



Console Output

Questions?


Thanks.