

# **JAVA SPRINGBOOT 2023**

**By: nano**



### Project

- ☐ Gradle - Groovy
- ☐ Gradle - Kotlin

### Language

- ☒ Java
- ☐ Kotlin
- ☐ Groovy

### Spring Boot

- ☐ 3.0.2 (SNAPSHOT)
- ☒ 3.0.1
- ☐ 2.7.8 (SNAPSHOT)
- ☐ 2.7.7

### Project Metadata

Group

Artifact

Name

### Dependencies

**ADD DEPENDENCIES...** CTRL + B

#### Spring Web **WEB**

Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the default embedded container.

#### Thymeleaf **TEMPLATE ENGINES**

A modern server-side Java template engine for both web and standalone environments. Allows HTML to be correctly displayed in browsers and as static prototypes.

#### H2 Database **SQL**

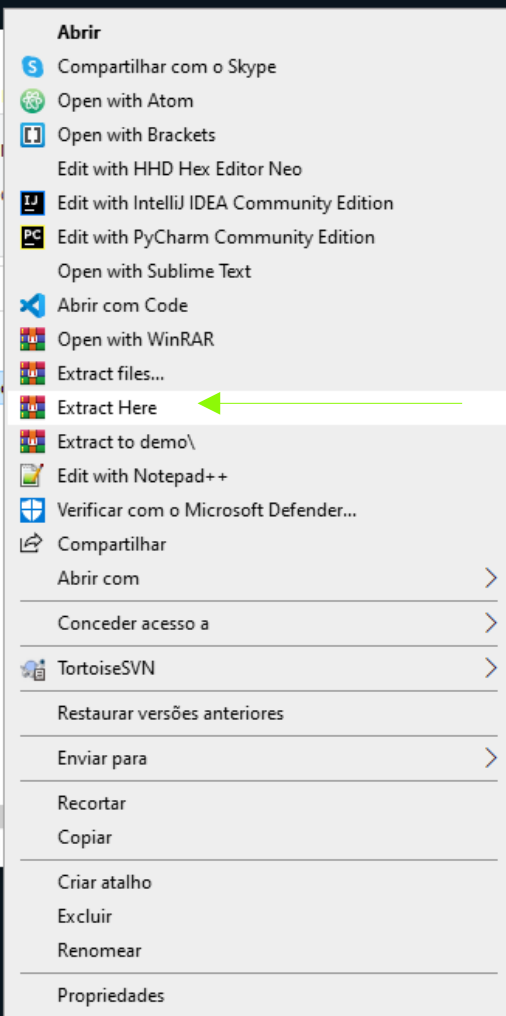
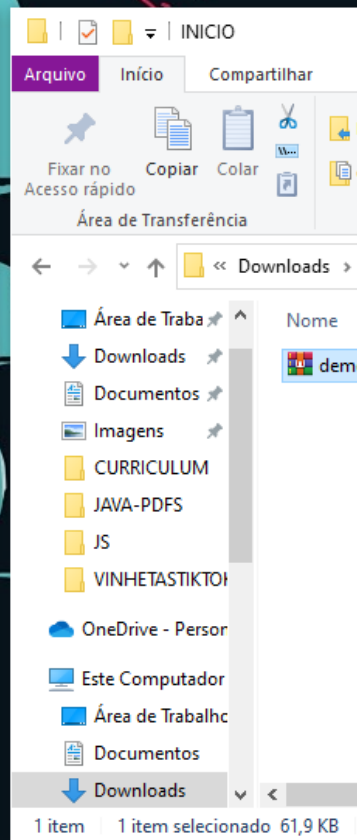
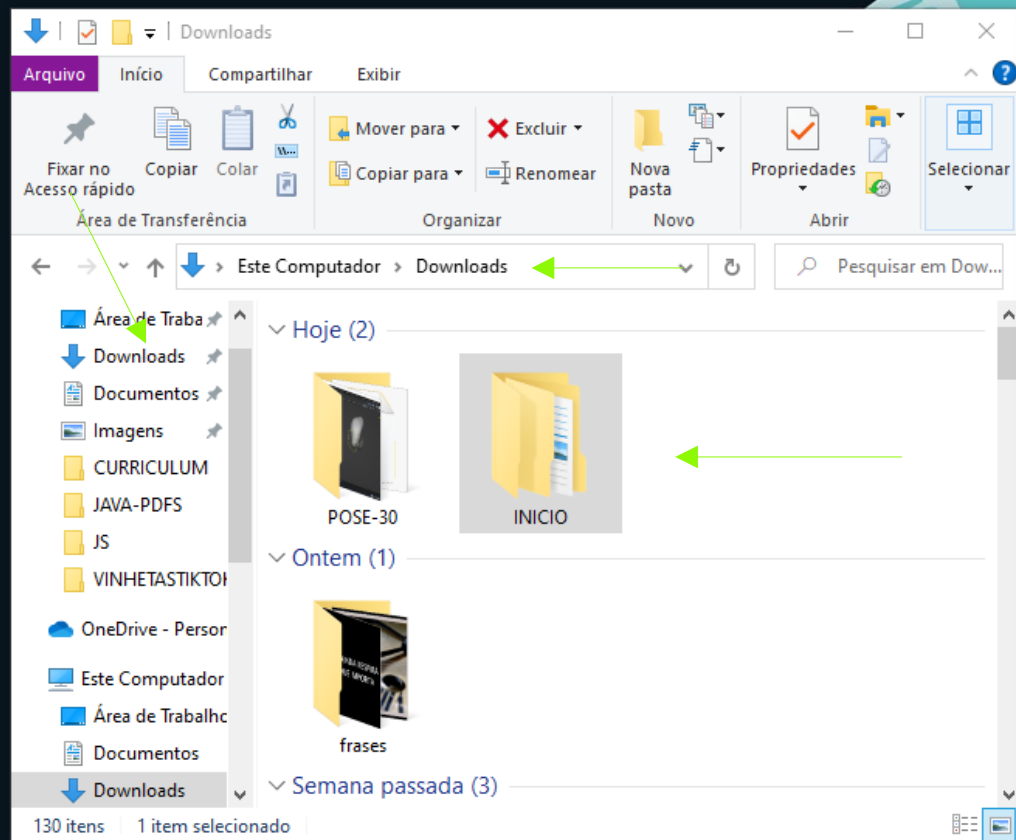
Provides a fast in-memory database that supports JDBC API and R2DBC access, with a small (2mb) footprint. Supports embedded and server modes as well as a browser based console application.

**GENERATE** CTRL + G    **EXPLORE** CTRL + SPACE    **SHARE...**

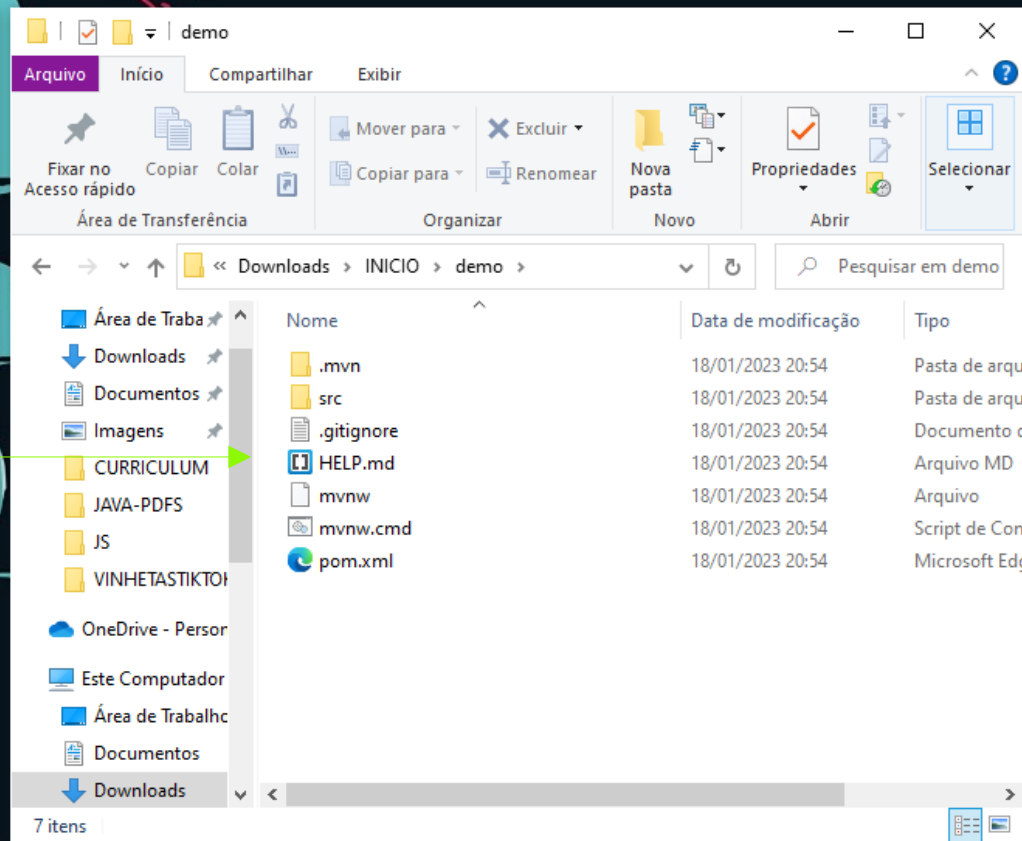
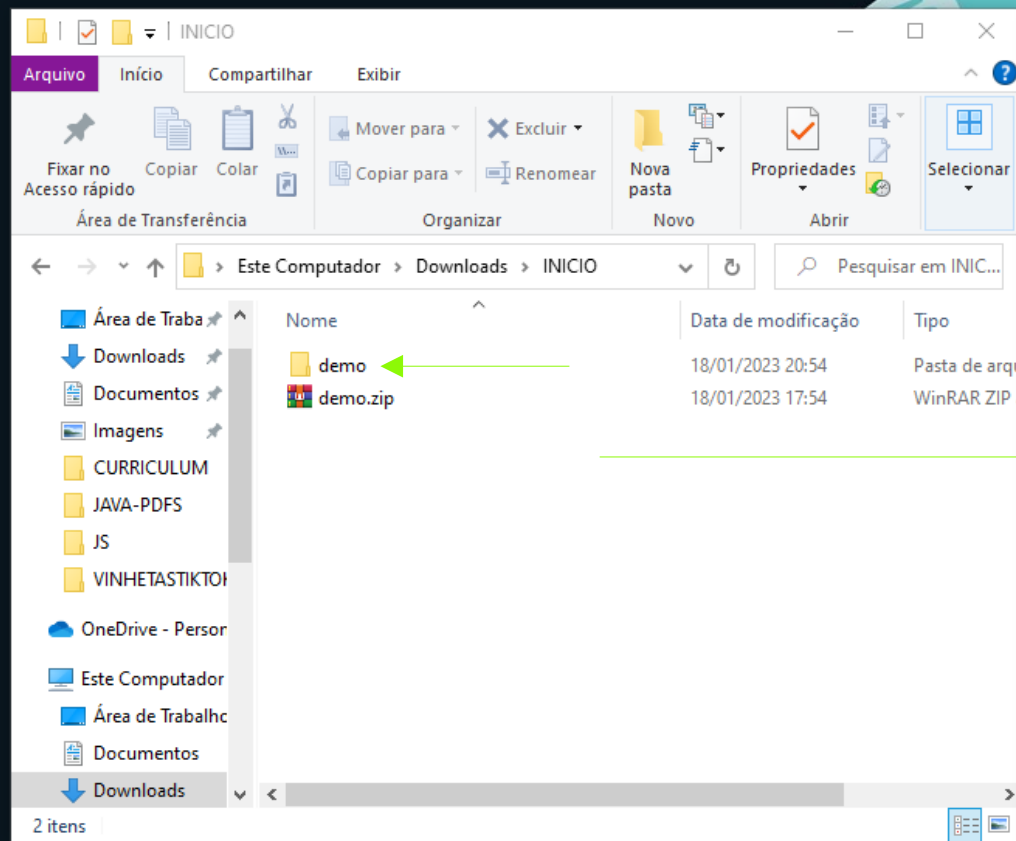
SHARE...

Provides fast application restarts, LiveReload, and configurations for enhanced development experience.

**Copie as configurações iniciais e click em generated  
Ano 2023  
Adicione as dependencias e tudo mais  
Por fim baixe e descompact em algum diretorio  
Depois disso  
Em qualquer ide importe uma arquivo do tipo maven  
E navegue até a pasta descompactada**



VII



VII

New Alt+Shift+N >

Open File...

Open Projects from File System...

Recent Files >

Close Editor Ctrl+W

Close All Editors Ctrl+Shift+W

Save Ctrl+S

Save As...

Save All Ctrl+Shift+S

Revert

Move...

Rename... F2

Refresh F5

Convert Line Delimiters To >

Print... Ctrl+P

Import... Import

Export...

Properties Alt+Enter

Switch Workspace >

Restart

Exit

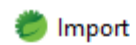
Type tags, projects, or working set names to match (incl. an

 local

Estou usando  
O springtools  
swuit  
Mais em  
qualquer ide é  
igual

Problems @ Javadoc Declaration Console X

No consoles to display at this time.



## Select

Import existing Maven projects



Select an import wizard:

- > General
- > Git
- > Gradle
- > Install
- ▼ Maven
  - Check out Maven Projects from SCM
  - Existing Maven Projects
  - Install or deploy an artifact to a Maven repository
  - Materialize Maven Binary Project
  - Materialize Maven Projects from SCM
- > Plug-in Development
- > Run/Debug
- > Team
- > TextMate



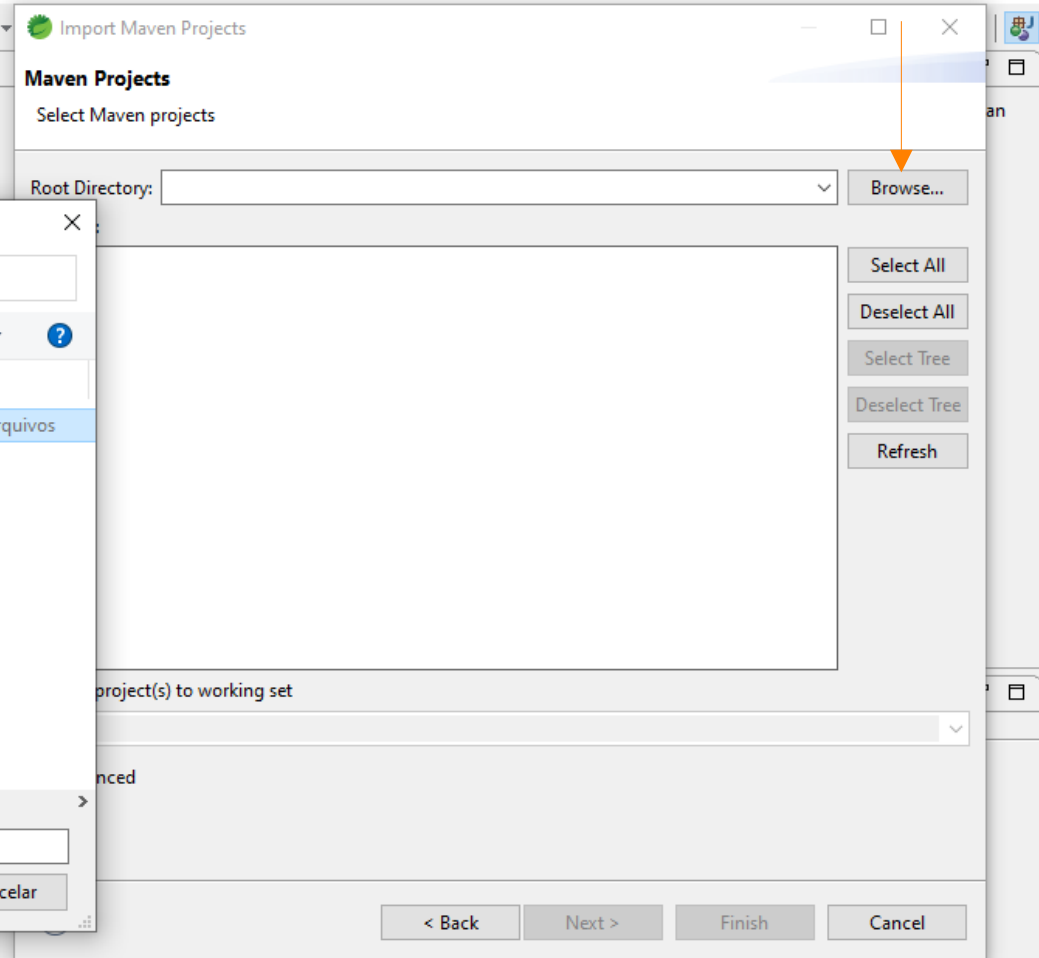
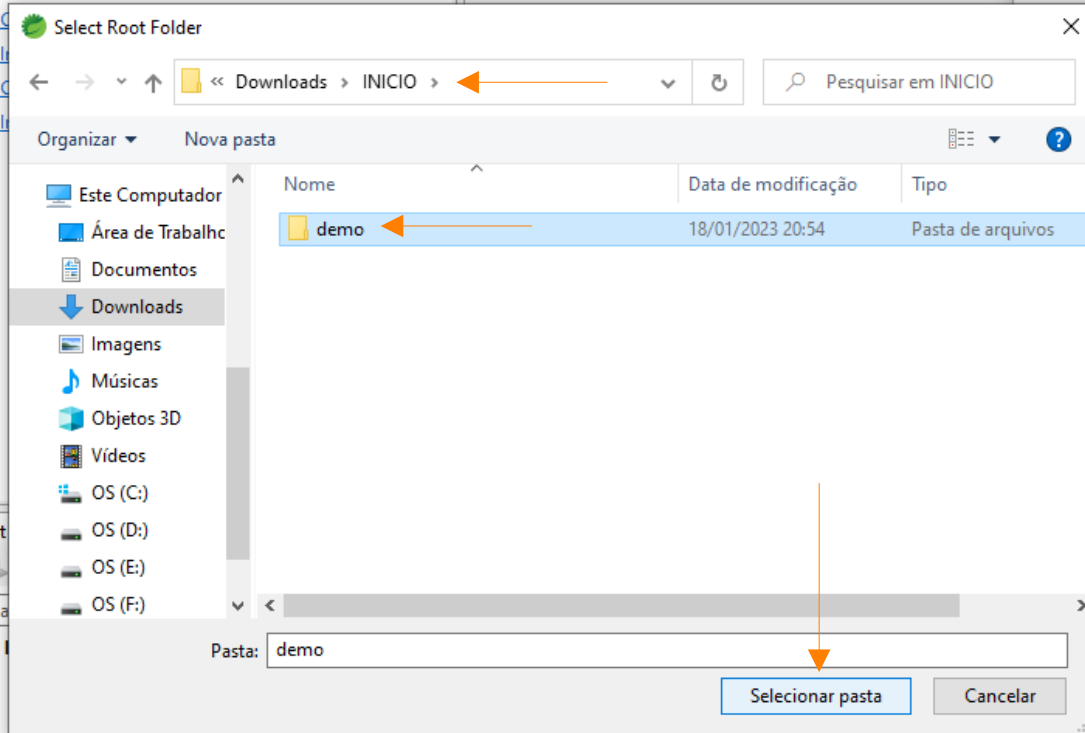
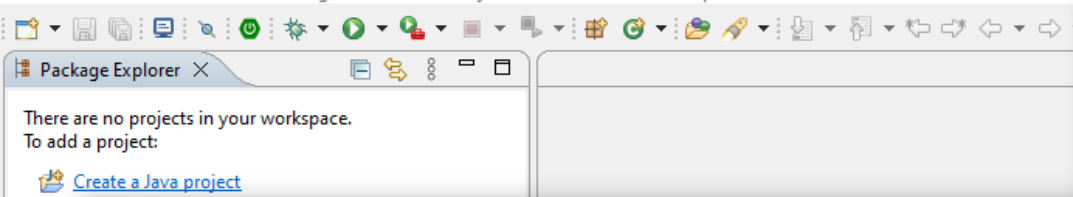
< Back

Next >

Finish

Cancel





## Maven Projects

Select Maven projects

Root Directory: C:\Users\britto\Downloads\INICIO\demo

Browse...

Projects:

☒ /pom.xml com.example:demo:0.0.1-SNAPSHOT:jar

Select All

Deselect All

Select Tree

Deselect Tree

Refresh

☐ Add project(s) to working set

demo

Advanced



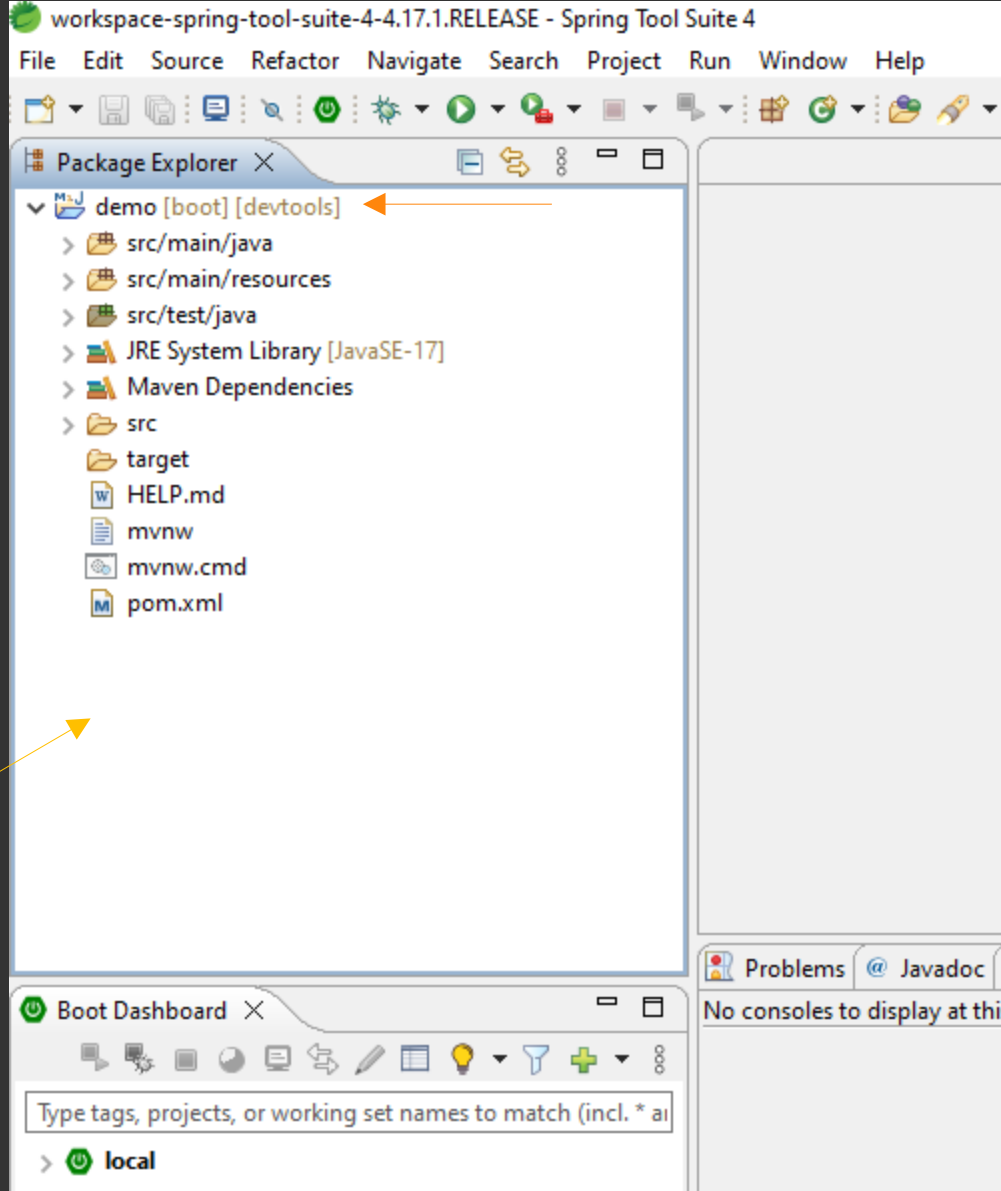
< Back

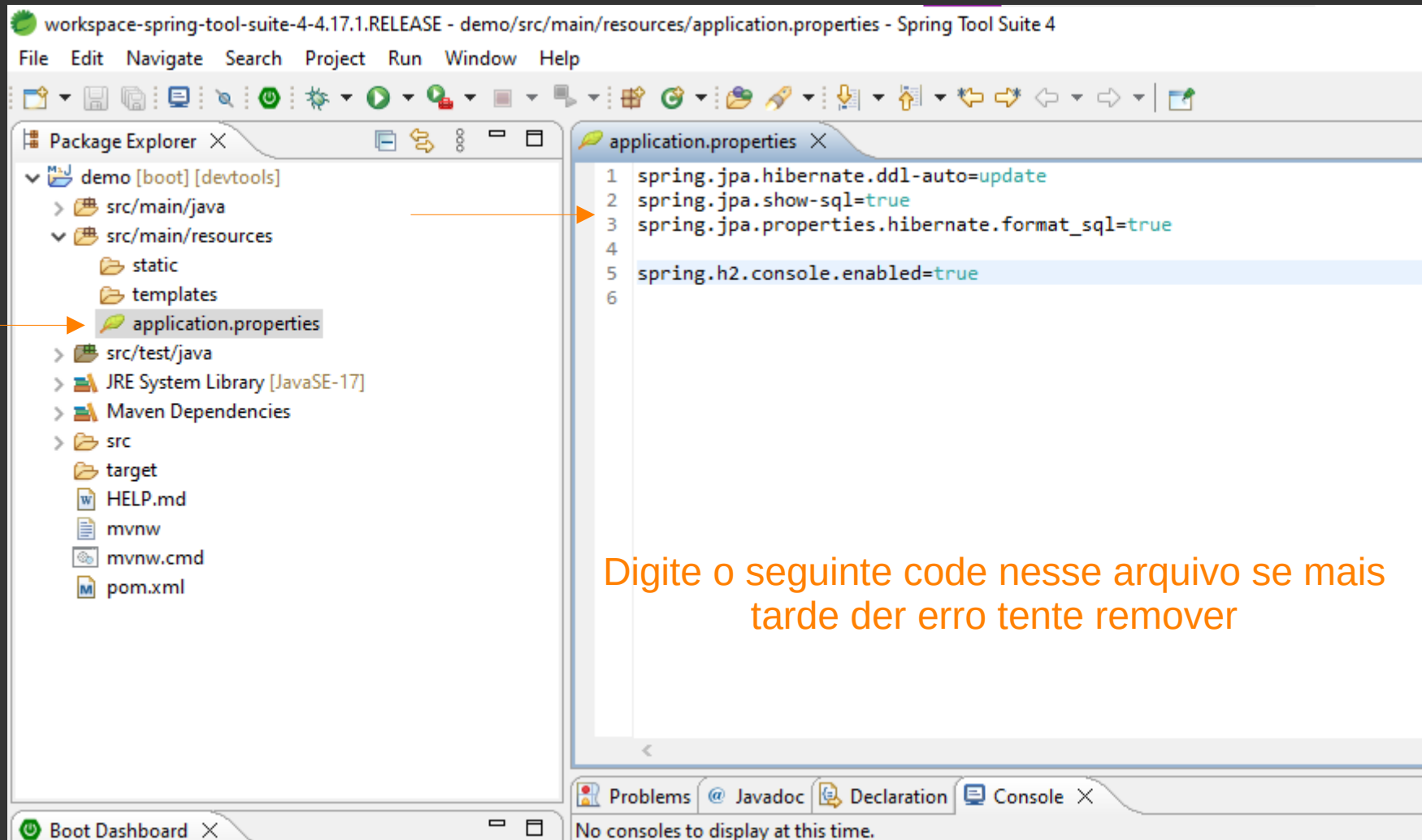
Next >

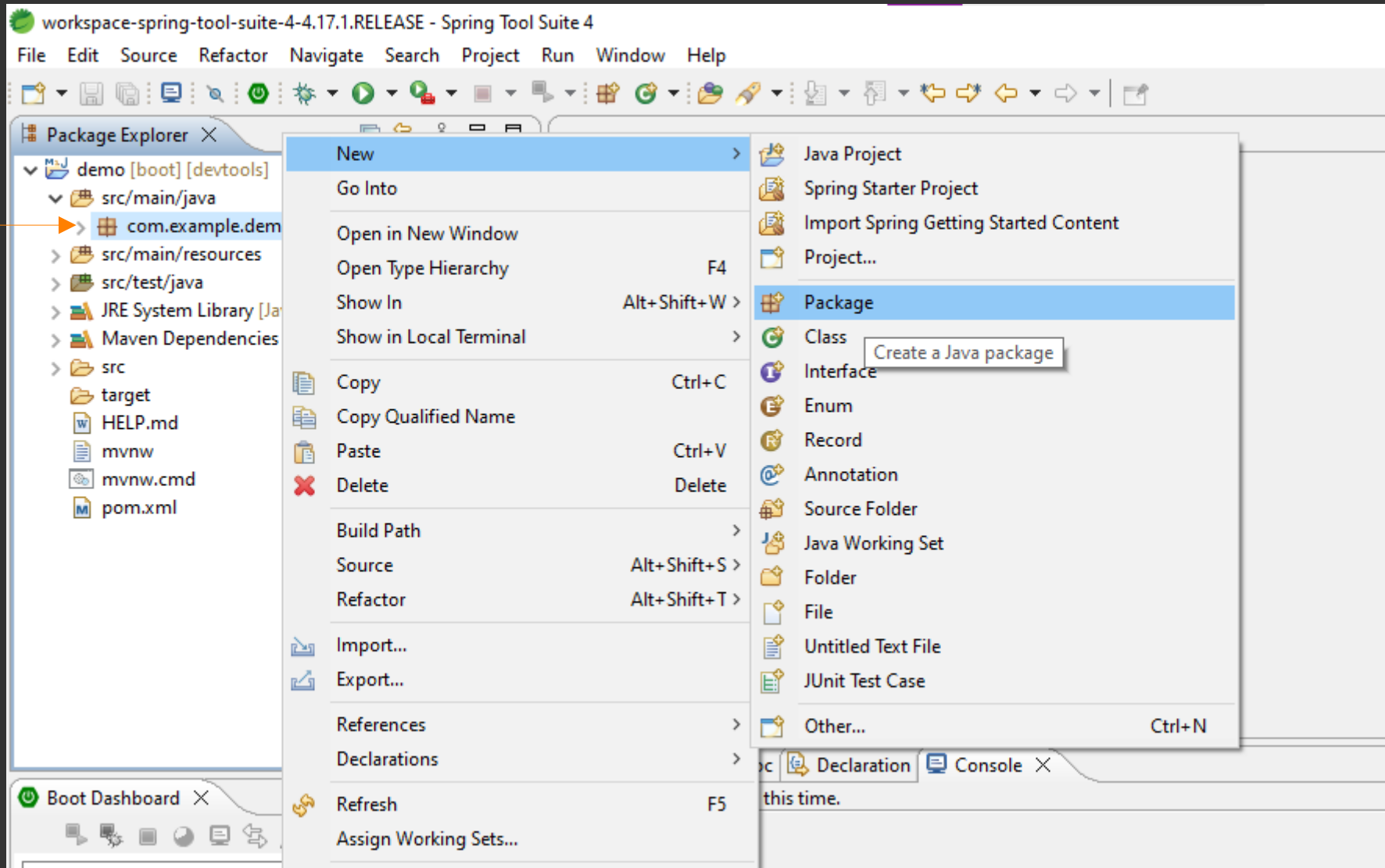
Finish

Cancel

Aguarde o  
programa baixar  
tudo o que  
precisa







New Java Package

Java Package

Create a new Java package.



Creates folders corresponding to packages.

Source folder:

demo/src/main/java

Browse...

Name:

com.example.demo.rh.dominio

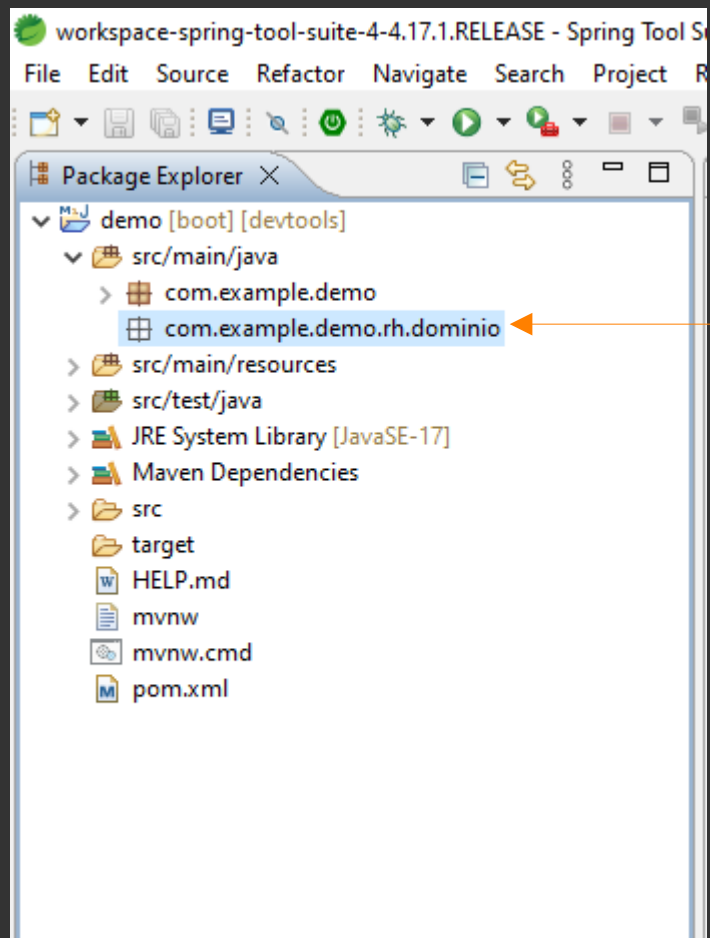
☐ Create package-info.java

☐ Generate comments (configure templates and default value [here](#))



Finish

Cancel





## Package Explorer

- demo [boot] [devtools]
  - src/main/java
    - com.example.demo
      - com.example.demo.rh.domin
    - src/main/resources
    - src/test/java
    - JRE System Library [JavaSE-17]
    - Maven Dependencies
    - src
      - target
      - HELP.md
      - mvnw
      - mvnw.cmd
      - pom.xml

New			
Open in New Window			
Open Type Hierarchy	F4		
Show In	Alt+Shift+W		
Show in Local Terminal			
Copy	Ctrl+C		
Copy Qualified Name			
Paste	Ctrl+V		
Delete	Delete		
Build Path			
Source	Alt+Shift+S		
Refactor	Alt+Shift+T		
Import...			
Export...			
Refresh	F5		
Assign Working Sets...			
Run As			
Debug As			

Java Project	
Spring Starter Project	
Import Spring Getting Started Content	
Project...	
Package	
Class	Create a Java class
Interface	
Enum	
Record	
Annotation	
Source Folder	
Java Working Set	
Folder	
File	
Untitled Text File	
JUnit Test Case	
Other...	Ctrl+N

## Boot Dashboard



Type tags, projects, or working set names

&gt; local



New Java Class


### Java Class

Create a new Java class.

Source folder:

Package:

☐ Enclosing type:

Name:  

Modifiers: ☒ public ☐ package ☐ private ☐ protected  
☐ abstract ☐ final ☐ static  
☒ none ☐ sealed ☐ non-sealed ☐ final

Superclass:

Interfaces:

Which method stubs would you like to create?


☐ public static void main(String[] args)


☐ Constructors from superclass

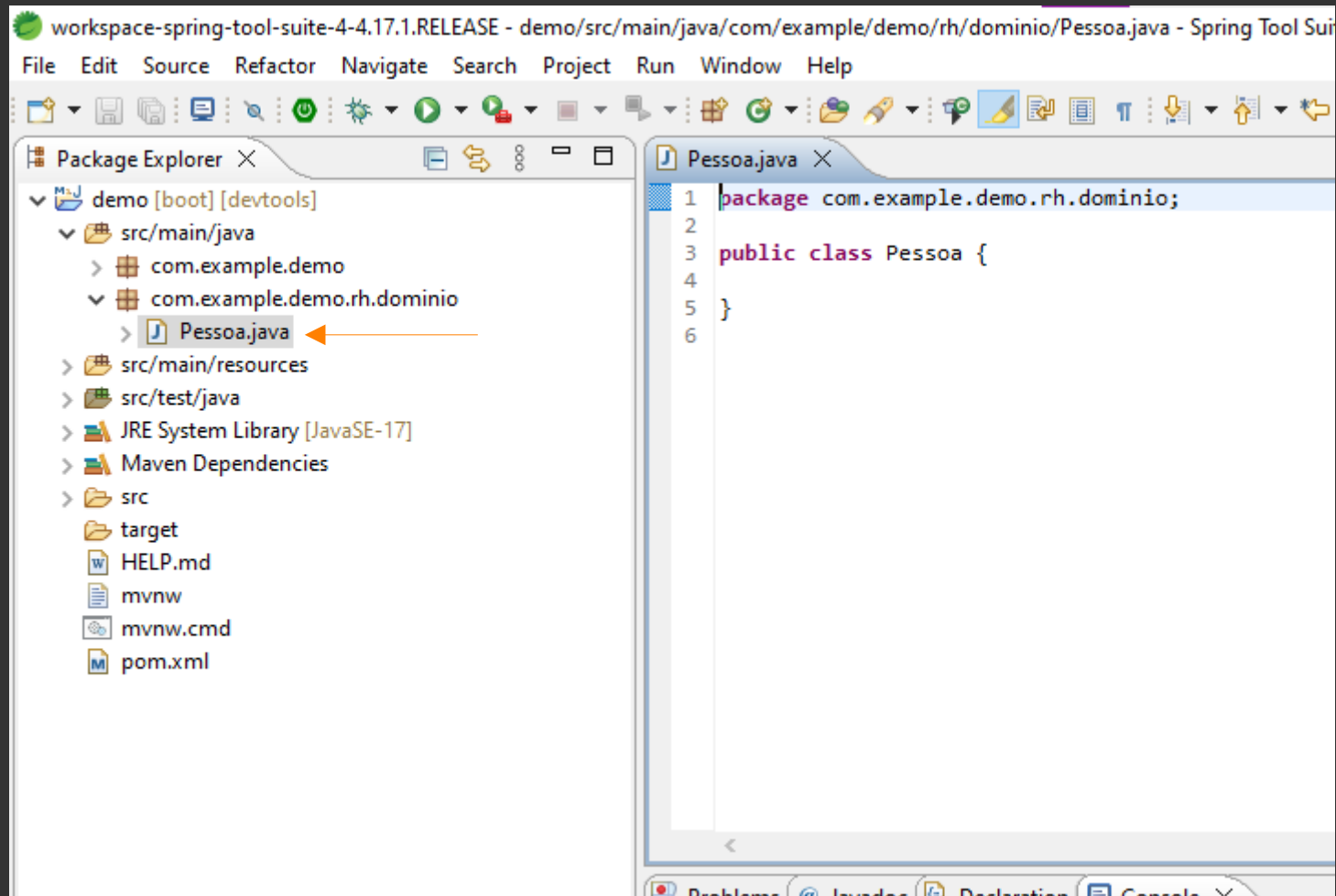
☒ Inherited abstract methods

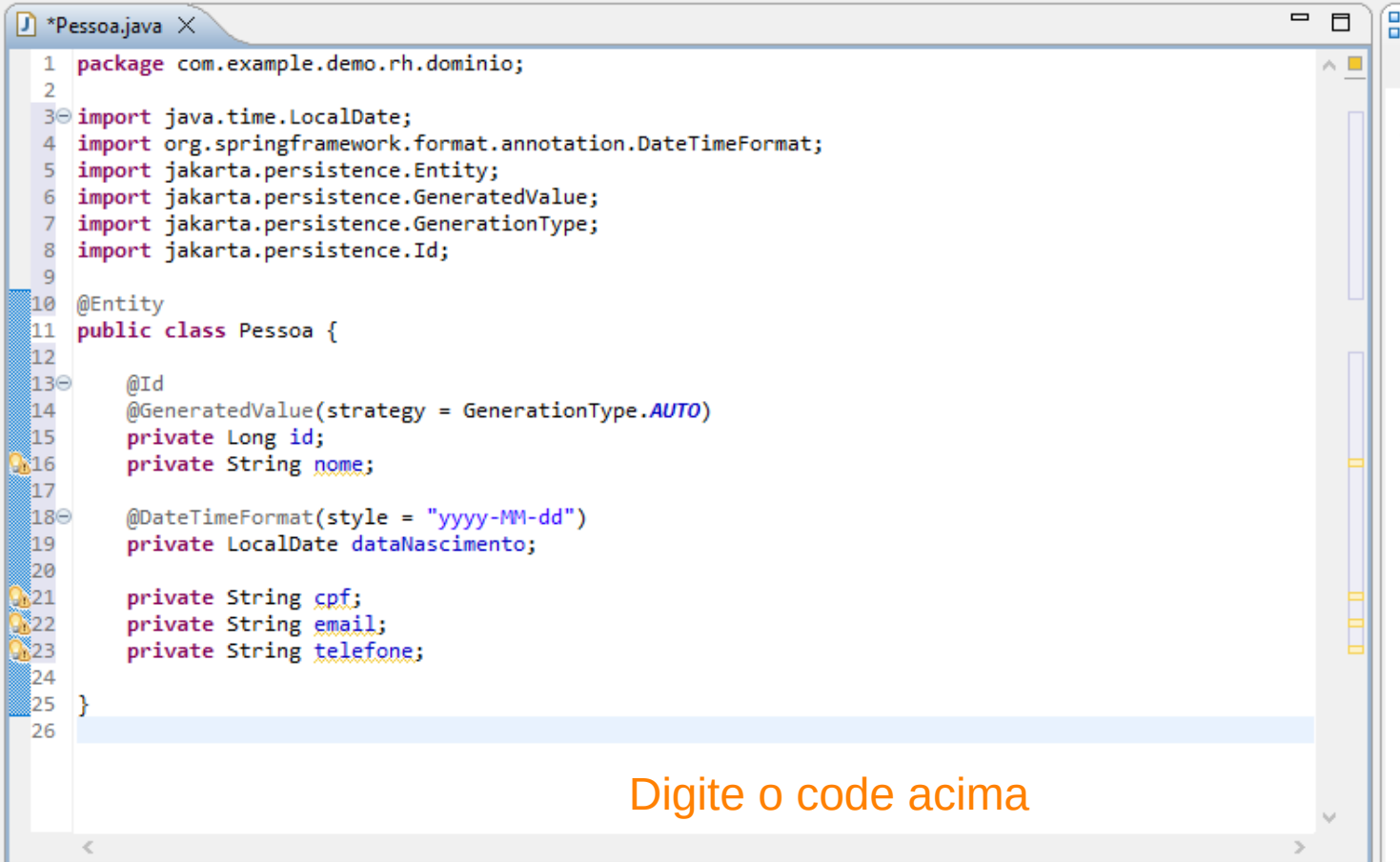
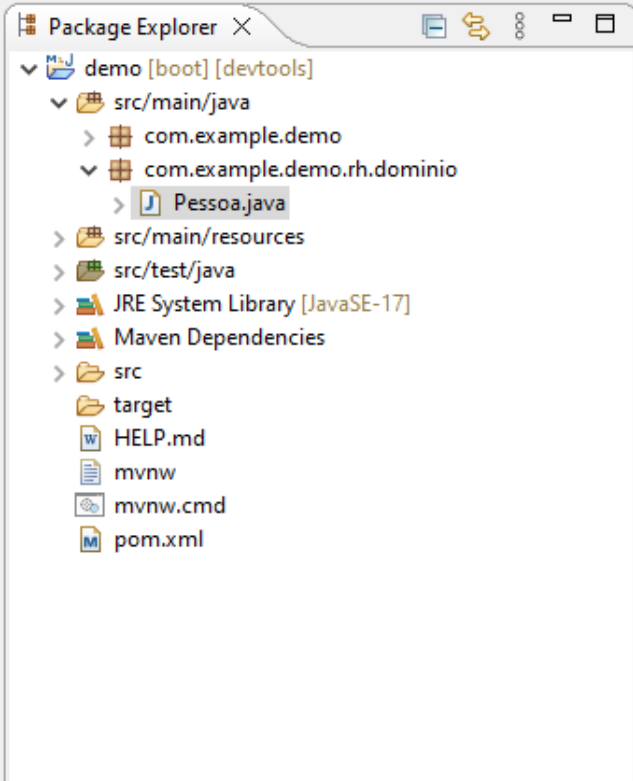
Do you want to add comments? (Configure templates and default value [here](#))

☐ Generate comments

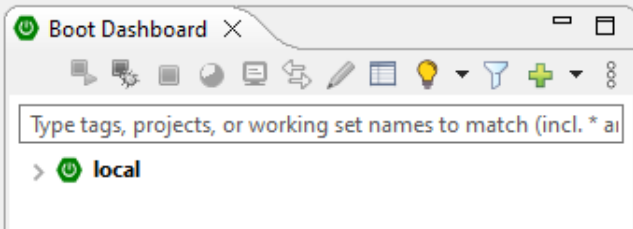


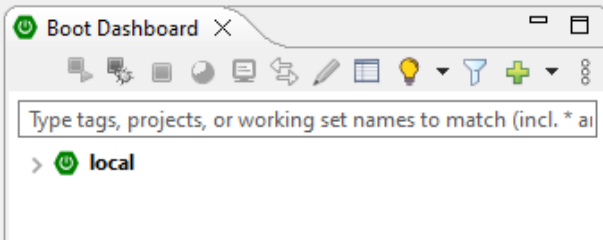
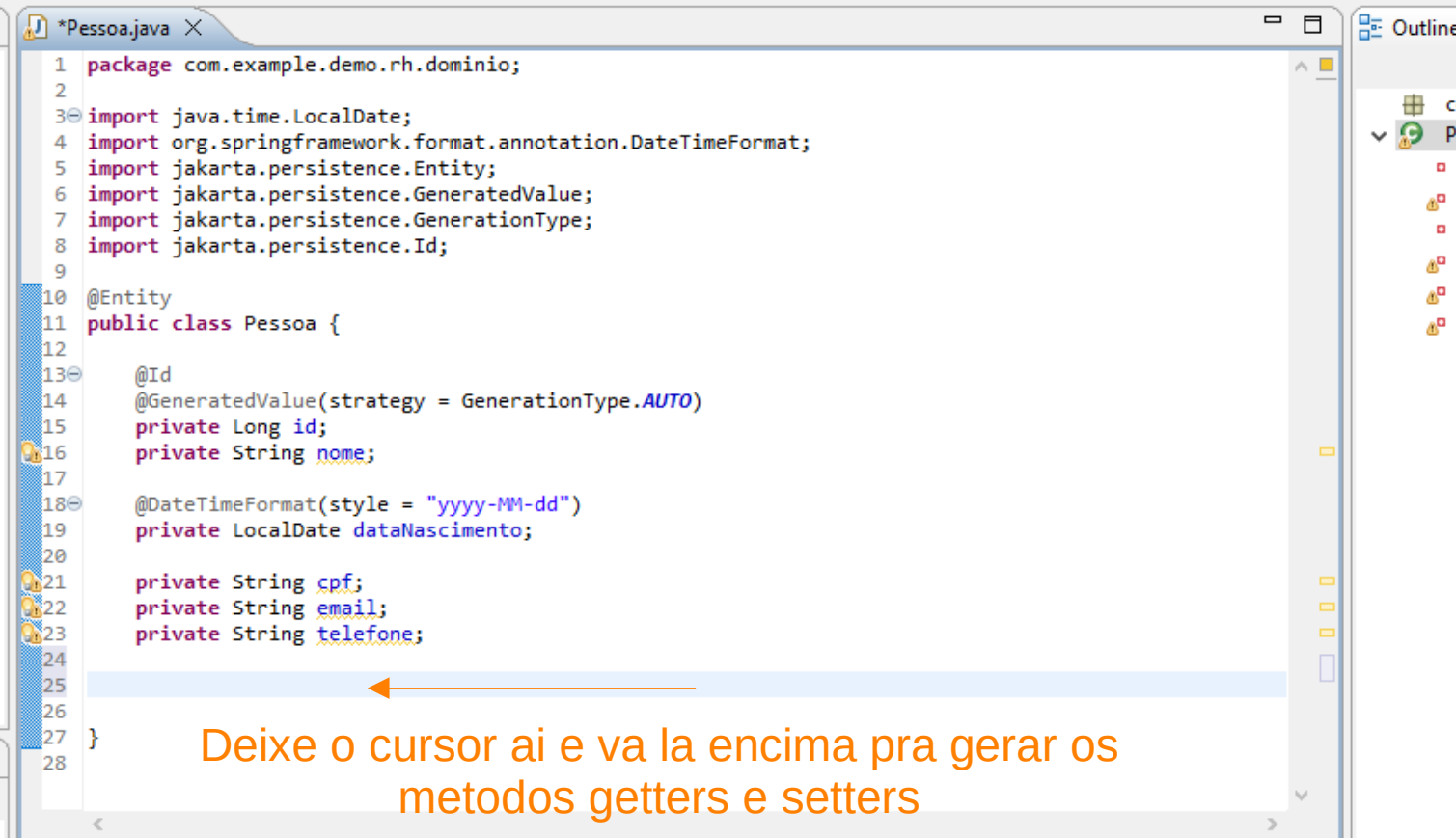
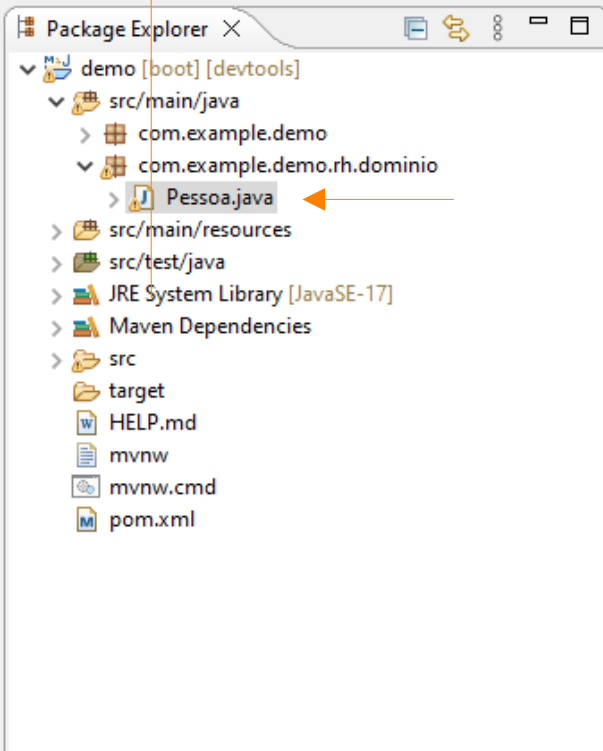


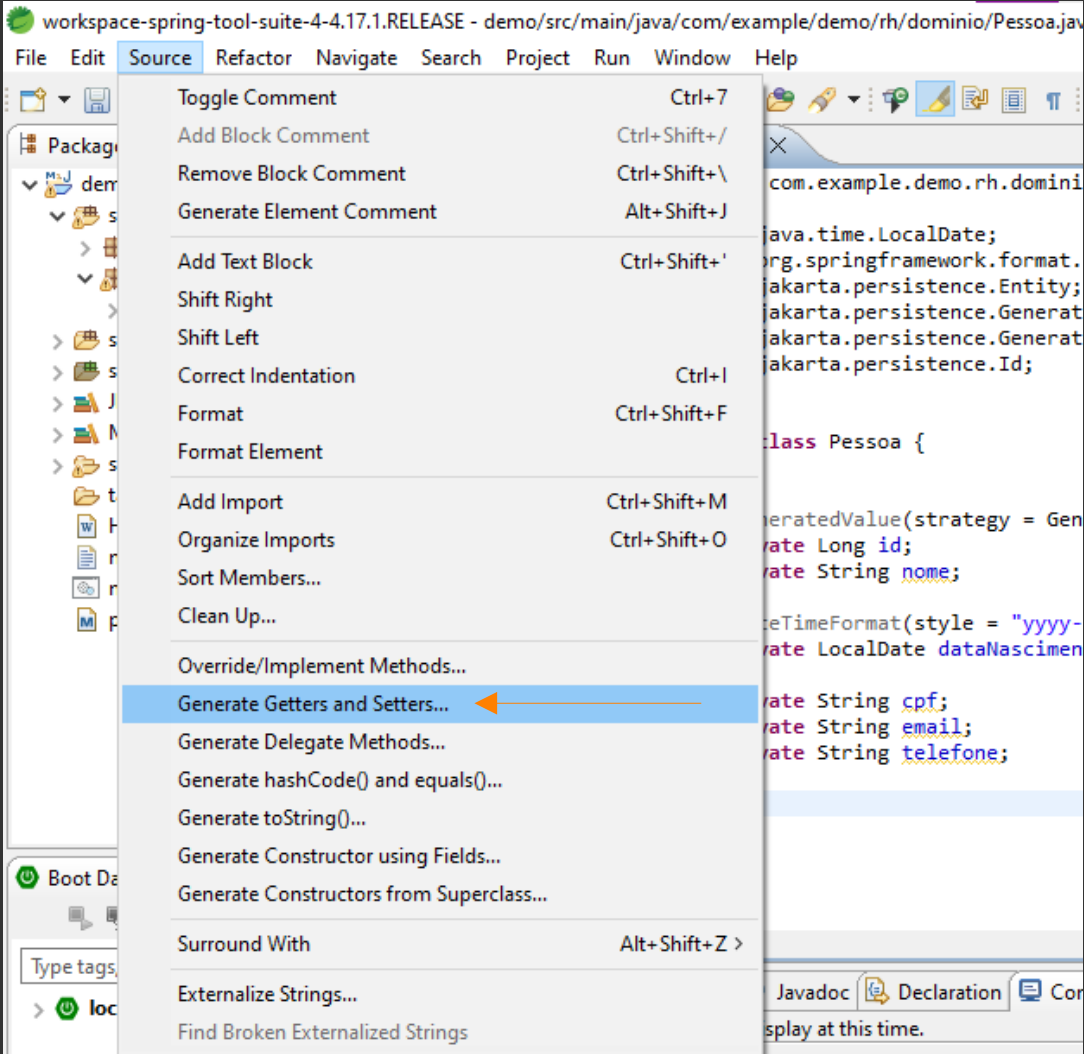




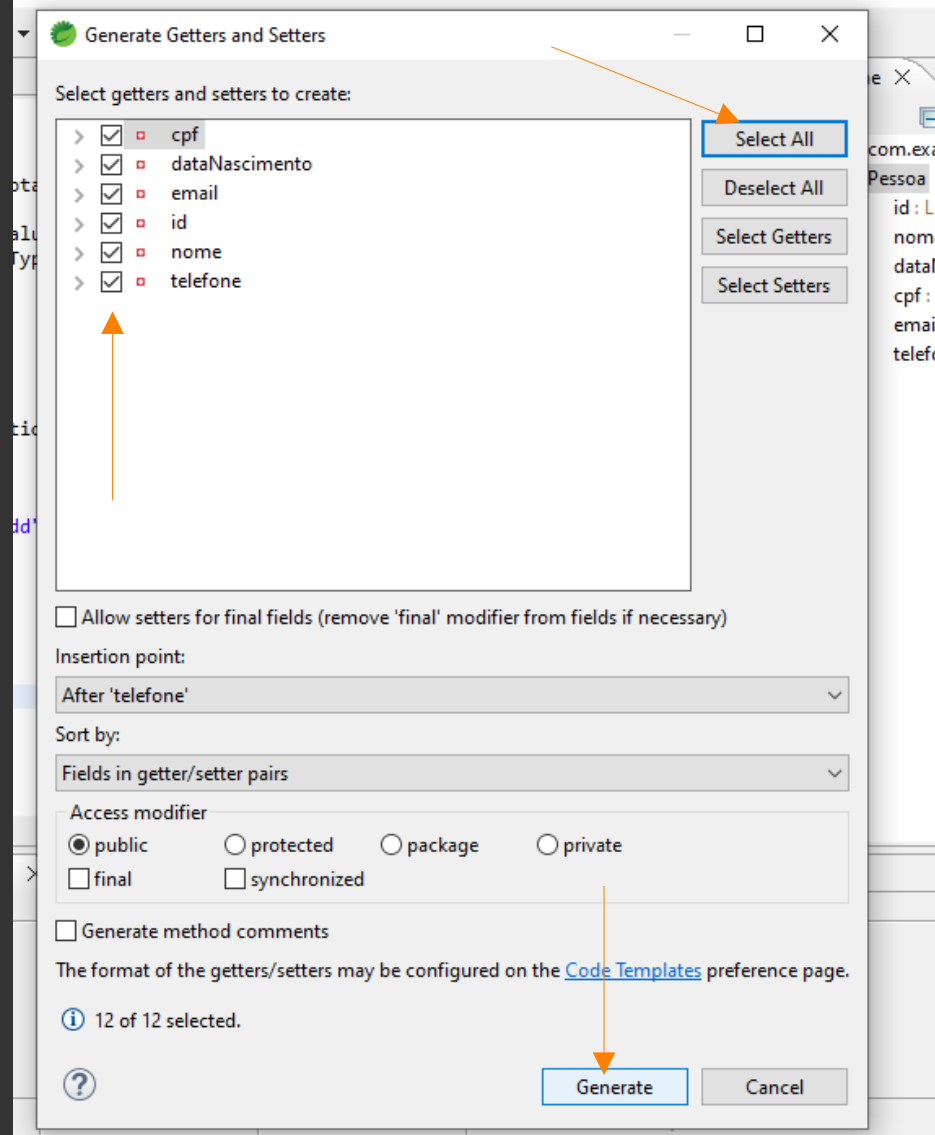
Digite o code acima

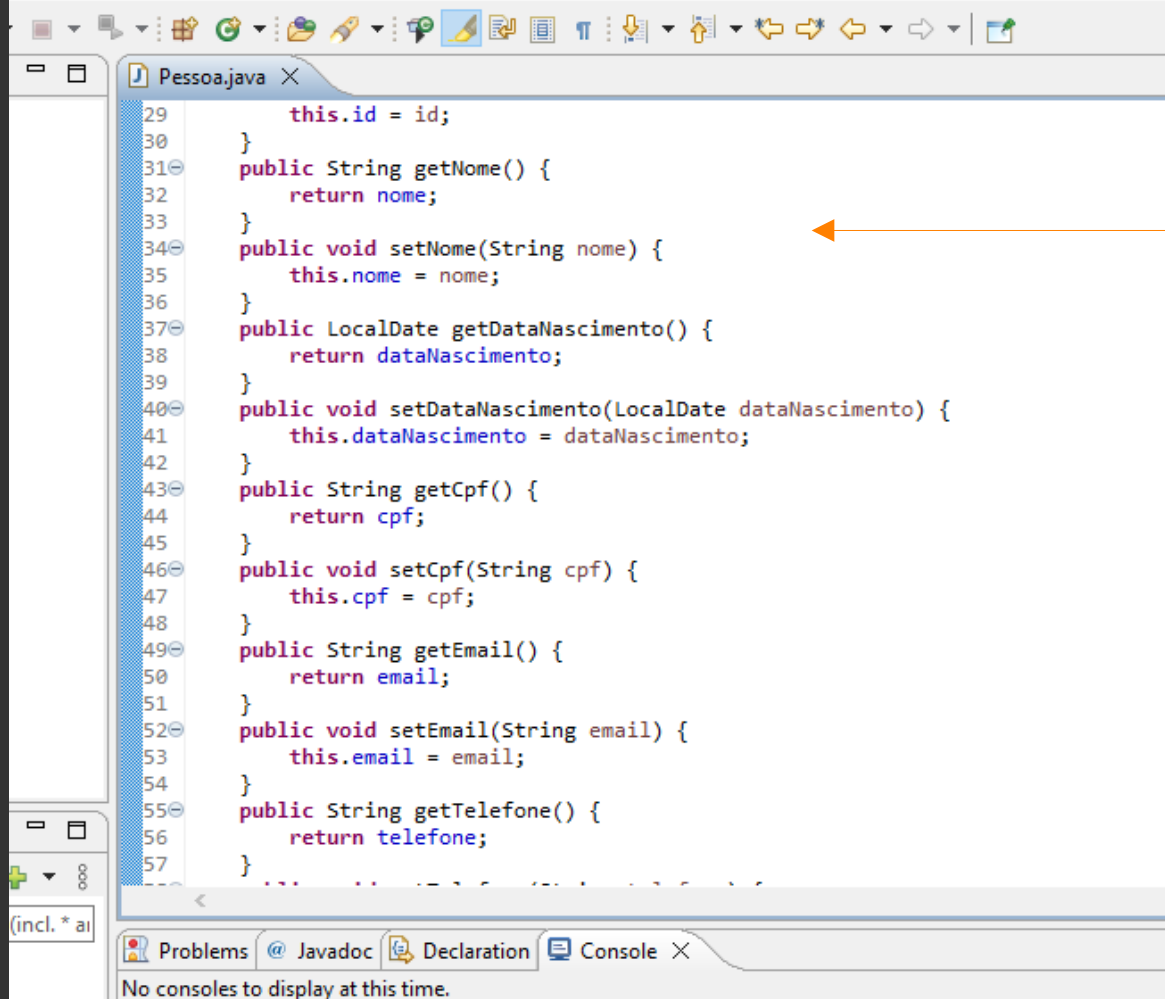






Selecione tudo





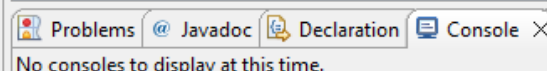
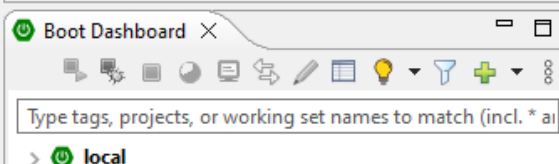
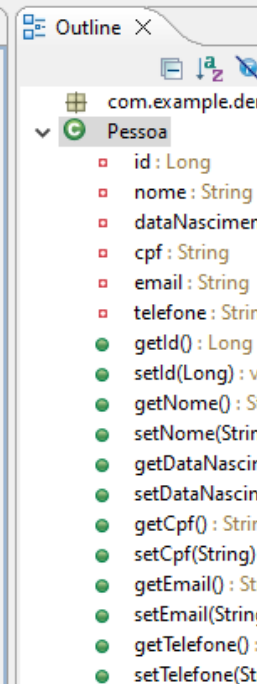
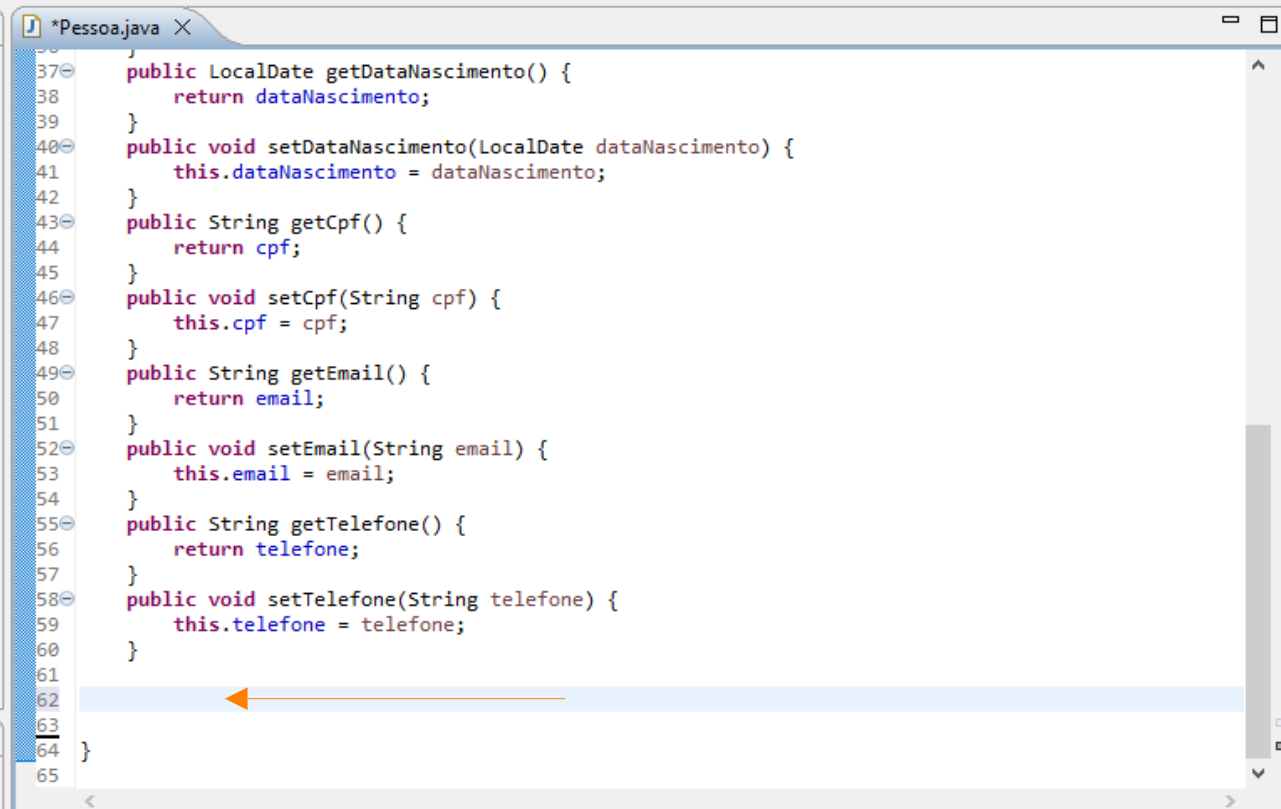
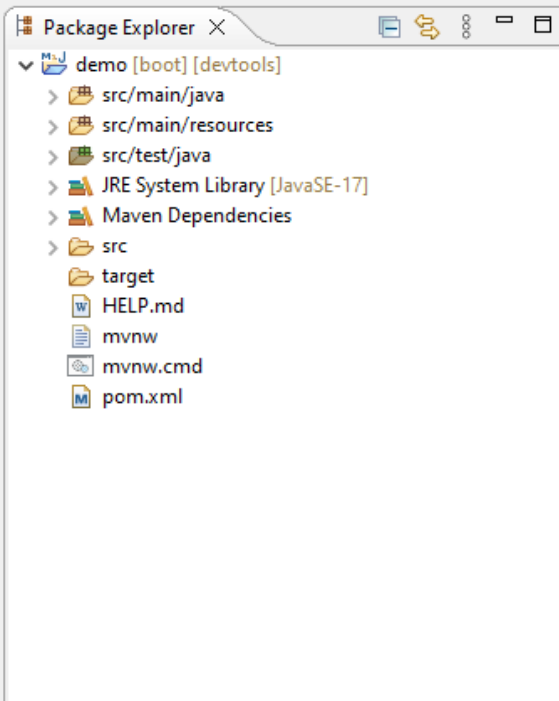
```
29     this.id = id;
30 }
31 public String getNome() {
32     return nome;
33 }
34 public void setNome(String nome) {
35     this.nome = nome;
36 }
37 public LocalDate getDataNascimento() {
38     return dataNascimento;
39 }
40 public void setDataNascimento(LocalDate dataNascimento) {
41     this.dataNascimento = dataNascimento;
42 }
43 public String getCpf() {
44     return cpf;
45 }
46 public void setCpf(String cpf) {
47     this.cpf = cpf;
48 }
49 public String getEmail() {
50     return email;
51 }
52 public void setEmail(String email) {
53     this.email = email;
54 }
55 public String getTelefone() {
56     return telefone;
57 }
```

(incl. \* a)

Problems Javadoc Declaration Console ×

No consoles to display at this time.

Só uma amostra como os metodos  
ficam depois de serem feitos



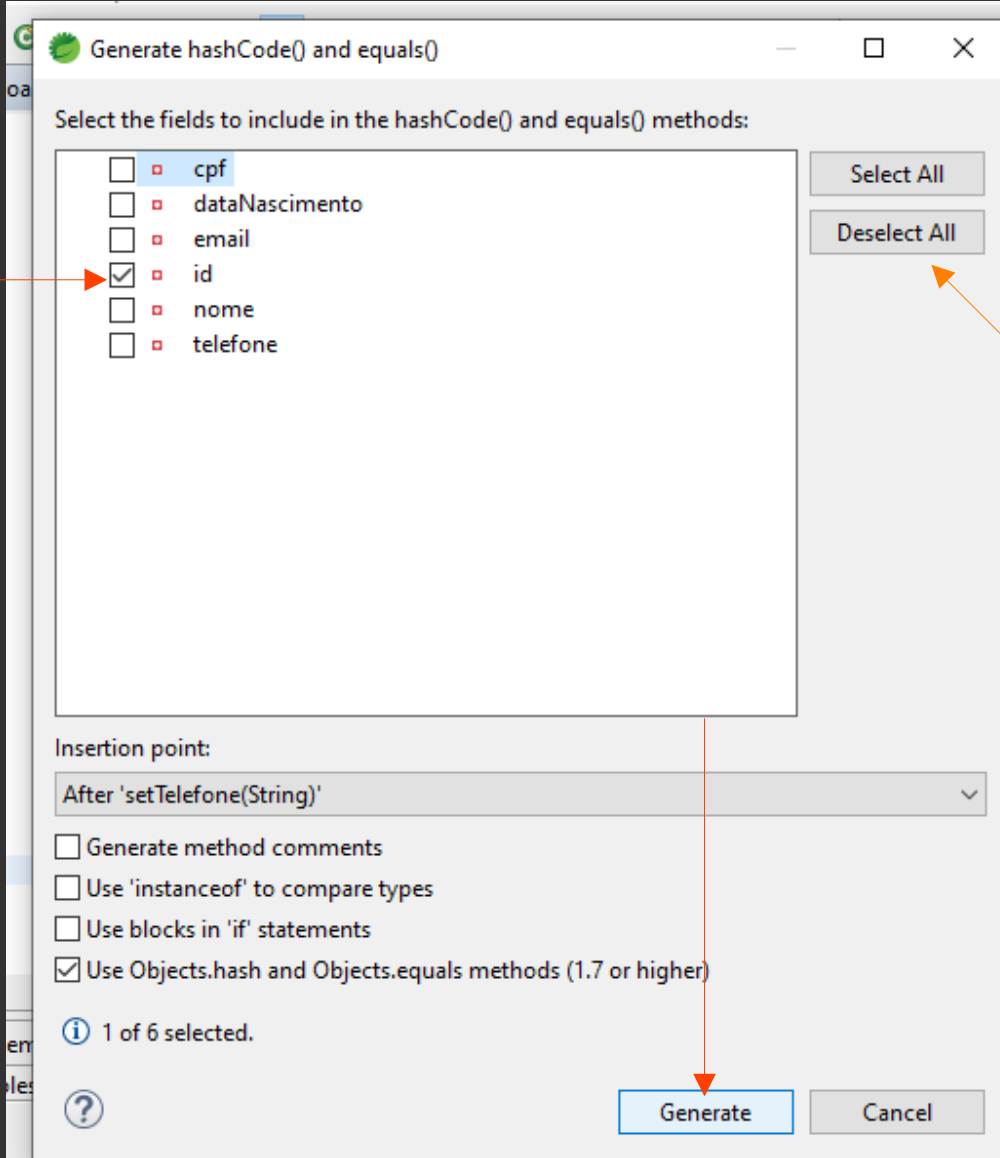
Deixe o cursor ai

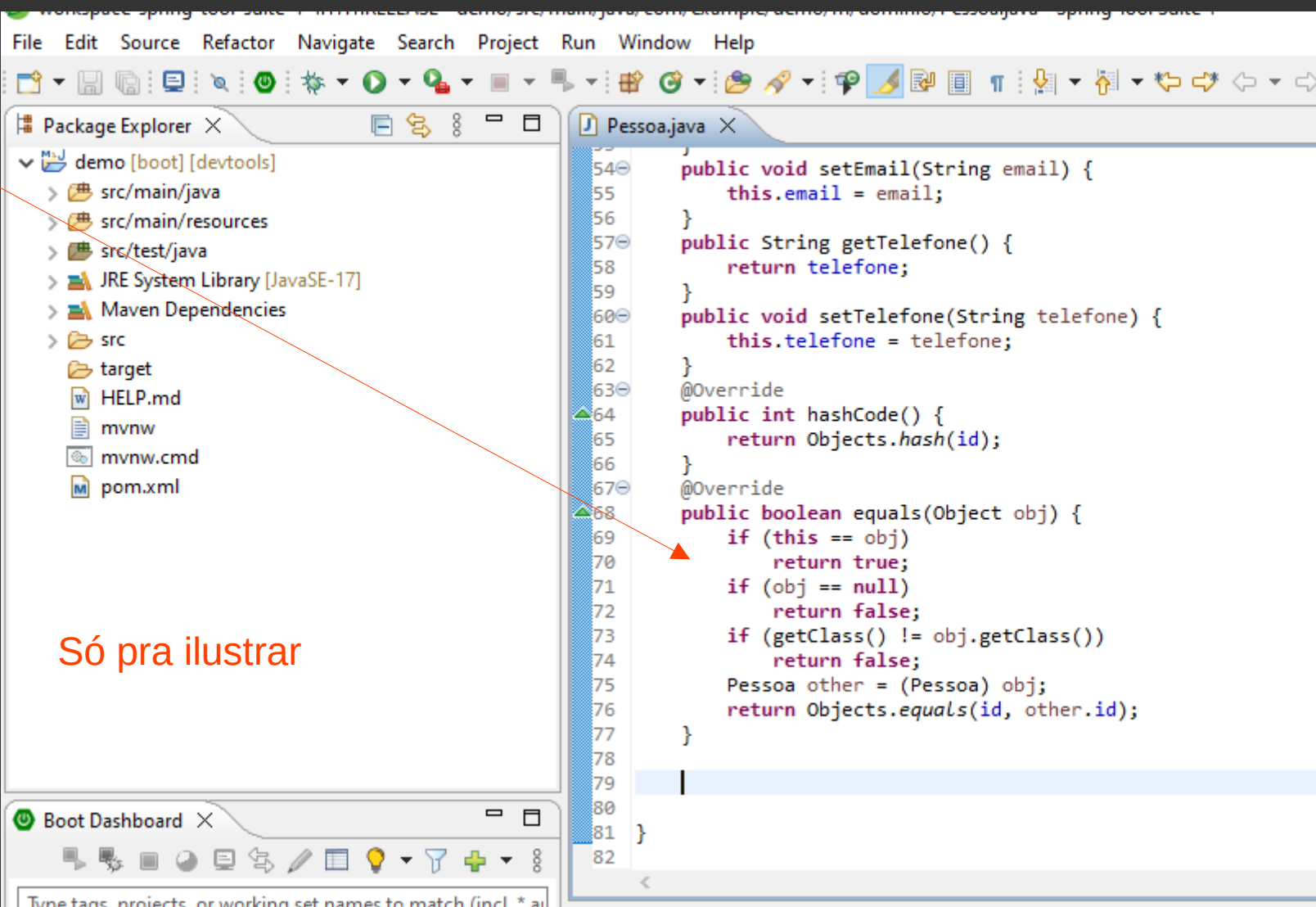


The screenshot shows the Eclipse IDE's 'Source' menu. The menu is open, displaying various code generation and editing options. The option 'Generate hashCode() and equals()...' is highlighted with a blue background. An orange arrow points from the 'Source' menu item in the top toolbar to the open menu. Another orange arrow points from the right side of the screen to the highlighted menu item. The background shows a portion of the IDE's interface, including the Package Explorer on the left and a code editor on the right.

- Toggle Comment Ctrl+7
- Add Block Comment Ctrl+Shift+/
- Remove Block Comment Ctrl+Shift+\
- Generate Element Comment Alt+Shift+J
- Add Text Block Ctrl+Shift+'
- Shift Right
- Shift Left
- Correct Indentation Ctrl+I
- Format Ctrl+Shift+F
- Format Element
- Add Import Ctrl+Shift+M
- Organize Imports Ctrl+Shift+O
- Sort Members...
- Clean Up...
- Override/Implement Methods...
- Generate Getters and Setters...
- Generate Delegate Methods...
- Generate hashCode() and equals()...**
- Generate toString()...
- Generate Constructor using Fields...
- Generate Constructors from Superclass...
- Surround With Alt+Shift+Z >
- Externalize Strings...
- Find Broken Externalized Strings

Marque só o id







## Package Explorer

- demo [boot] [devtools]
  - src/main/java
  - src/main/resources
  - src/test/java
  - JRE System Library [JavaSE-17]
  - Maven Dependencies
  - src
    - target
    - HELP.md
    - mvnw
    - mvnw.cmd
    - pom.xml

Deixe o cursor ai

## Boot Dashboard



Type tags, projects, or working set names to match (incl. \* ai

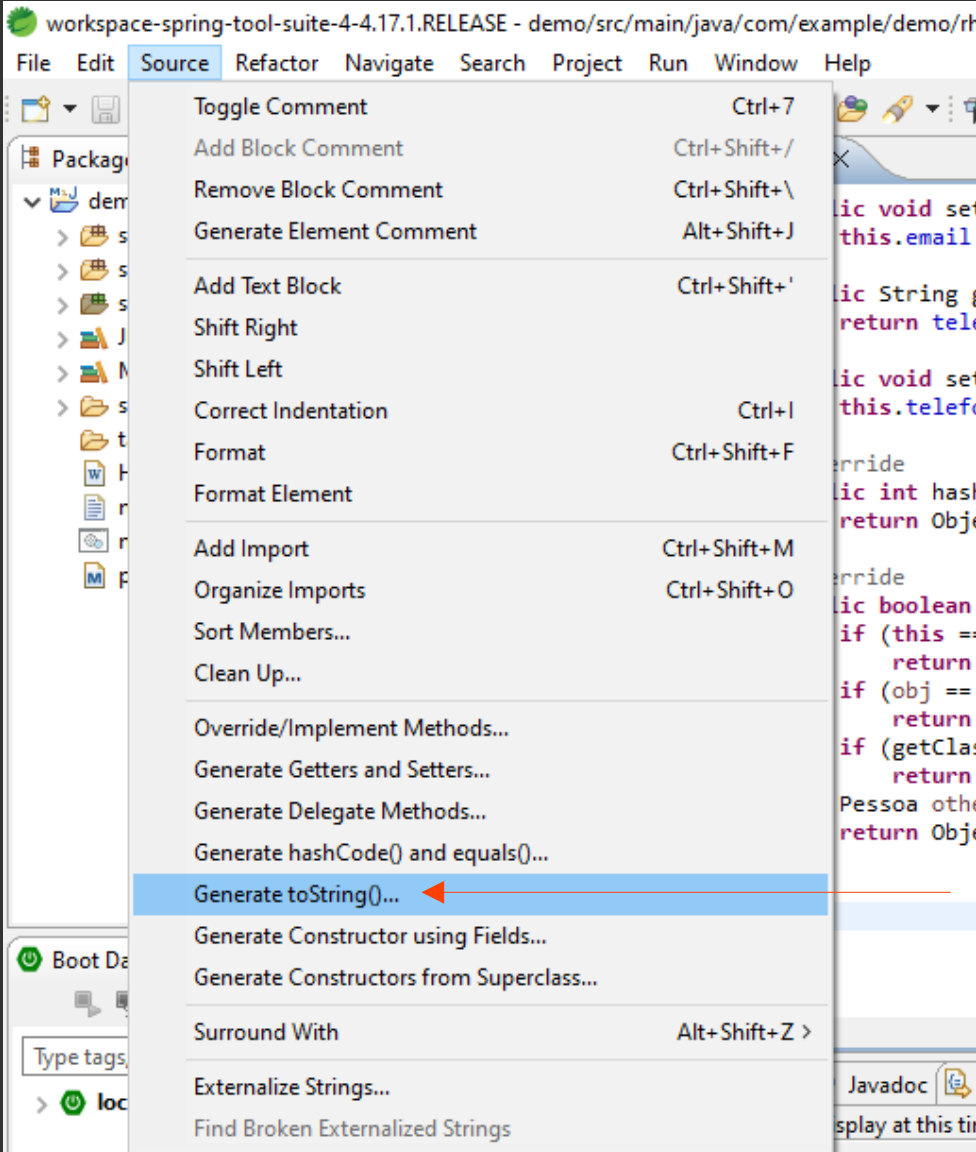
> local

## Pessoa.java

```
54 public void setEmail(String email) {
55     this.email = email;
56 }
57 public String getTelefone() {
58     return telefone;
59 }
60 public void setTelefone(String telefone) {
61     this.telefone = telefone;
62 }
63 @Override
64 public int hashCode() {
65     return Objects.hash(id);
66 }
67 @Override
68 public boolean equals(Object obj) {
69     if (this == obj)
70         return true;
71     if (obj == null)
72         return false;
73     if (getClass() != obj.getClass())
74         return false;
75     Pessoa other = (Pessoa) obj;
76     return Objects.equals(id, other.id);
77 }
78
79
80
81 }
82
```

Problems @ Javadoc Declaration Console

No consoles to display at this time.



## Generate toString()

Select fields and methods to include in the toString() method:

- ☒ Fields
  - ☐ id
  - ☒ nome
  - ☐ dataNascimento
  - ☐ cpf
  - ☐ email
  - ☐ telefone
- ☐ Methods
- ☐ Inherited methods

Select All

Deselect All

Up

Down

Sort

Insertion point:

After 'equals(Object)'

☐ Generate method comments

Generated code

String format: <Default template>

Edit...


Code style: String concatenation

Configure...

☐ Skip null values

☒ List contents of arrays instead of using native toString()

☐ Limit number of items in arrays/collections/maps to 10

 1 of 6 fields and 0 of 9 methods selected.



Generate

Cancel

workspace-spring-tool-suite-4-4.17.1.RELEASE - demo/src/main/java/com/example/demo/rh/ dominio/Pessoa.java - Spring Tool Suite 4

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer X

- demo [boot] [devtools]
  - src/main/java
  - src/main/resources
  - src/test/java
  - JRE System Library [JavaSE-17]
  - Maven Dependencies
  - src
    - target
    - HELP.md
    - mvnw
    - mvnw.cmd
    - pom.xml

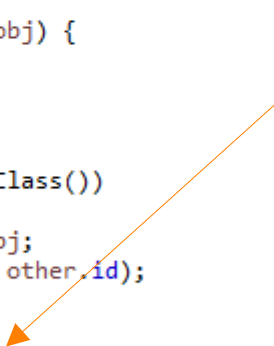
resultado

Boot Dashboard X

Type tags, projects, or working set names to match (incl. \* al

\*Pessoa.java X

```
57 public String getTelefone() {  
58     return telefone;  
59 }  
60 public void setTelefone(String telefone) {  
61     this.telefone = telefone;  
62 }  
63 @Override  
64 public int hashCode() {  
65     return Objects.hash(id);  
66 }  
67 @Override  
68 public boolean equals(Object obj) {  
69     if (this == obj)  
70         return true;  
71     if (obj == null)  
72         return false;  
73     if (getClass() != obj.getClass())  
74         return false;  
75     Pessoa other = (Pessoa) obj;  
76     return Objects.equals(id, other.id);  
77 }  
78 @Override  
79 public String toString() {  
80     return "Pessoa [nome=" + nome + "];"  
81 }  
82  
83  
84  
85 }  
86
```

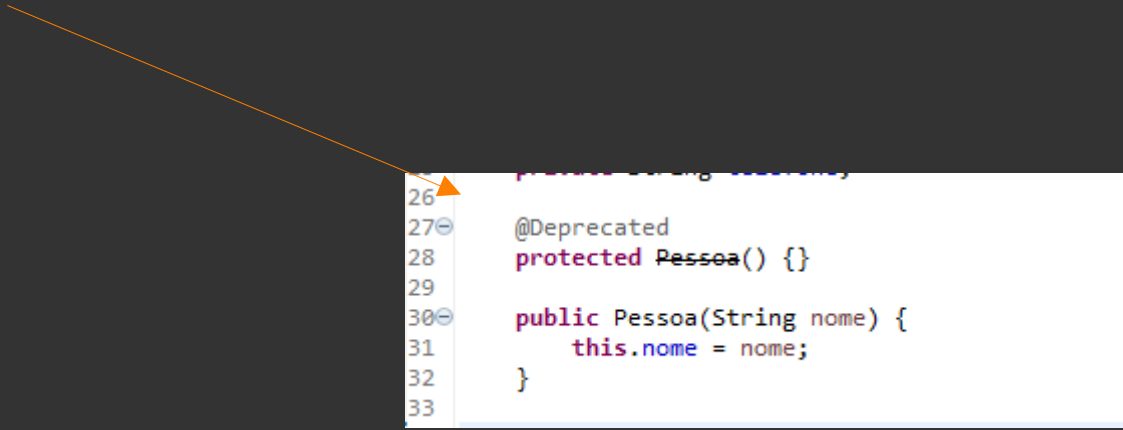


```
Pessoa.java X
15 @Id
16 @GeneratedValue(strategy = GenerationType.AUTO)
17 private Long id;
18 private String nome;
19
20 @DateTimeFormat(style = "yyyy-MM-dd")
21 private LocalDate dataNascimento;
22
23 private String cpf;
24 private String email;
25 private String telefone;
26
27 @Deprecated
28 protected Pessoa() {}
29
30 public Pessoa(String nome) {
31     this.nome = nome;
32 }
33
34 public Long getId() {
35     return id;
36 }
37 public void setId(Long id) {
38     this.id = id;
39 }
40 public String getNome() {
41     return nome;
42 }
43 public void setNome(String nome) {
```

Adicione esse código nesse lugar



Pra não ter duvidadas do que escrever



```
26
27 @Deprecated
28 protected Pessoa() {}
29
30 public Pessoa(String nome) {
31     this.nome = nome;
32 }
33
```

The screenshot shows the Spring Tool Suite 4 IDE. The Package Explorer on the left displays the project structure, with the package `com.example.demo.rh.dominio` selected. A context menu is open over this package, listing various actions. The 'New' option is expanded, showing a list of new elements that can be created. The 'Interface' option is highlighted, and a tooltip 'Create a Java interface' is visible. The main editor area shows the beginning of a Java class `Pessoa` with a `nome` attribute.

Package Explorer:

- demo [boot] [devtools]
  - src/main/java
    - com.example.demo
      - com.example.demo.rh.dominio**
      - src/main/resources
      - src/test/java
      - JRE System Library [JavaSE-17]
      - Maven Dependencies
      - src
        - target
        - HELP.md
        - mvnw
        - mvnw.cmd
        - pom.xml

Context Menu:

- New
  - Go Into
  - Open in New Window
  - Open Type Hierarchy F4
  - Show In Alt+Shift+W
  - Show in Local Terminal
  - Copy Ctrl+C
  - Copy Qualified Name
  - Paste Ctrl+V
  - Delete Delete
  - Build Path
  - Source Alt+Shift+S
  - Refactor Alt+Shift+T
  - Import...
  - Export...
  - References
  - Declarations
  - Refresh F5
  - Assign Working Sets
- Java Project
- Spring Starter Project
- Import Spring Getting Started Content
- Project...
- Package
- Class
- Interface** (Create a Java interface)
- Enum
- Record
- Annotation
- Source Folder
- Java Working Set
- Folder
- File
- Untitled Text File
- JUnit Test Case
- Other... Ctrl+N

Main Editor:

```
ne() {  
  
(String nome) {
```

## New Java Interface

### Java Interface

Create a new Java interface.



Source folder:

demo/src/main/java

Browse...

Package:

com.example.demo.rh.dominio

Browse...

☐ Enclosing type:

Browse...

Name:

PessoaRepositorio

Modifiers:

☒ public

☐ package

☐ private

☐ protected

☒ none

☐ sealed

☐ non-sealed

Extended interfaces:

Add...

Remove

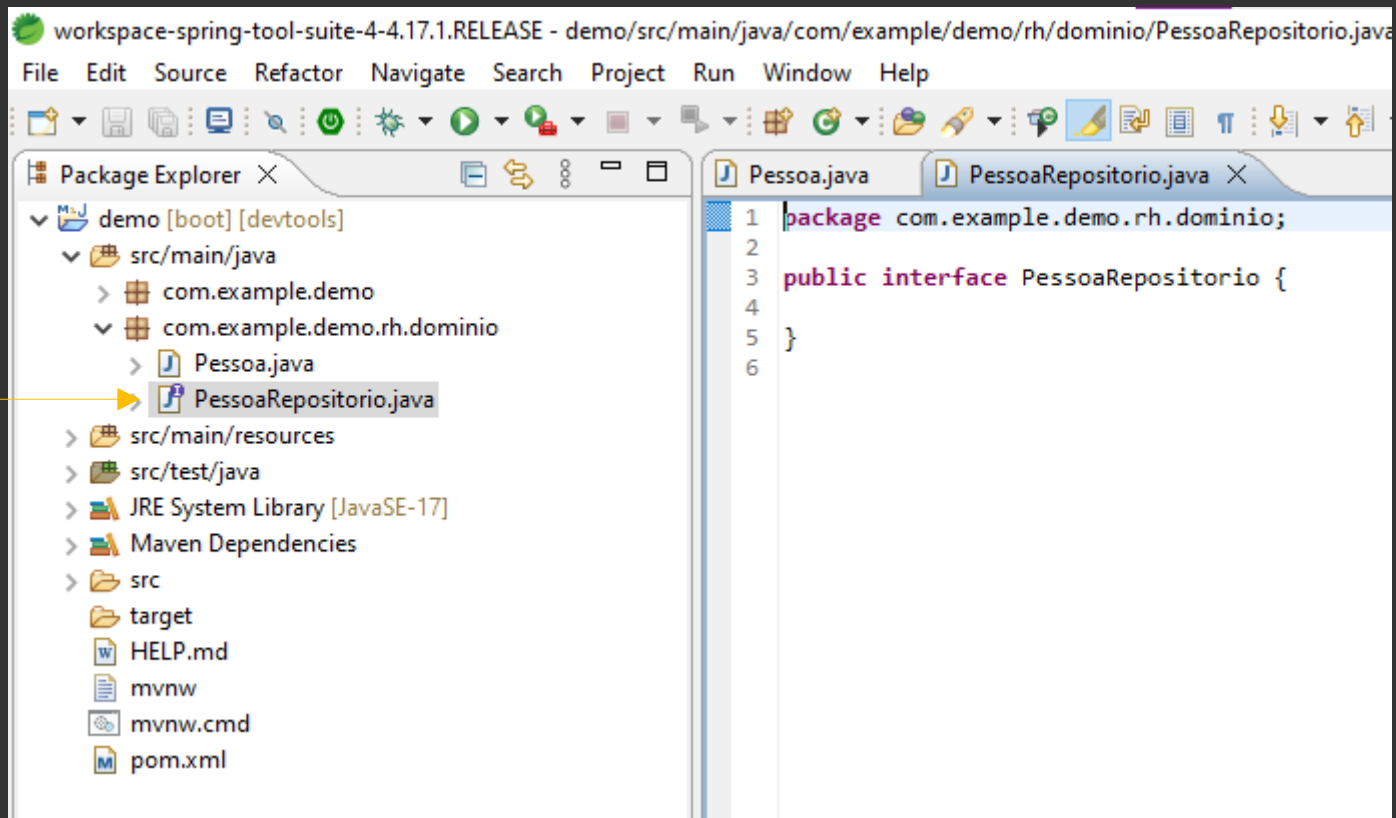
Do you want to add comments? (Configure templates and default value [here](#))

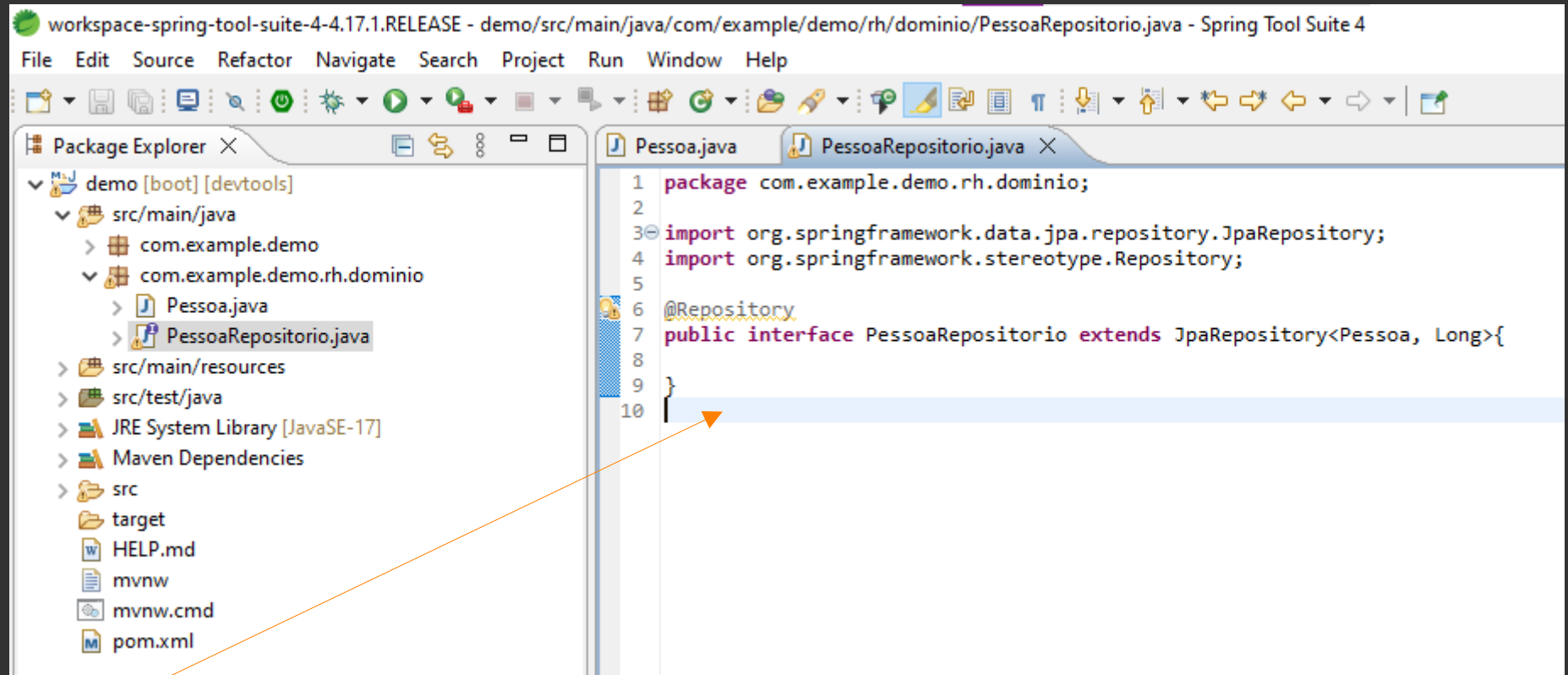
☐ Generate comments



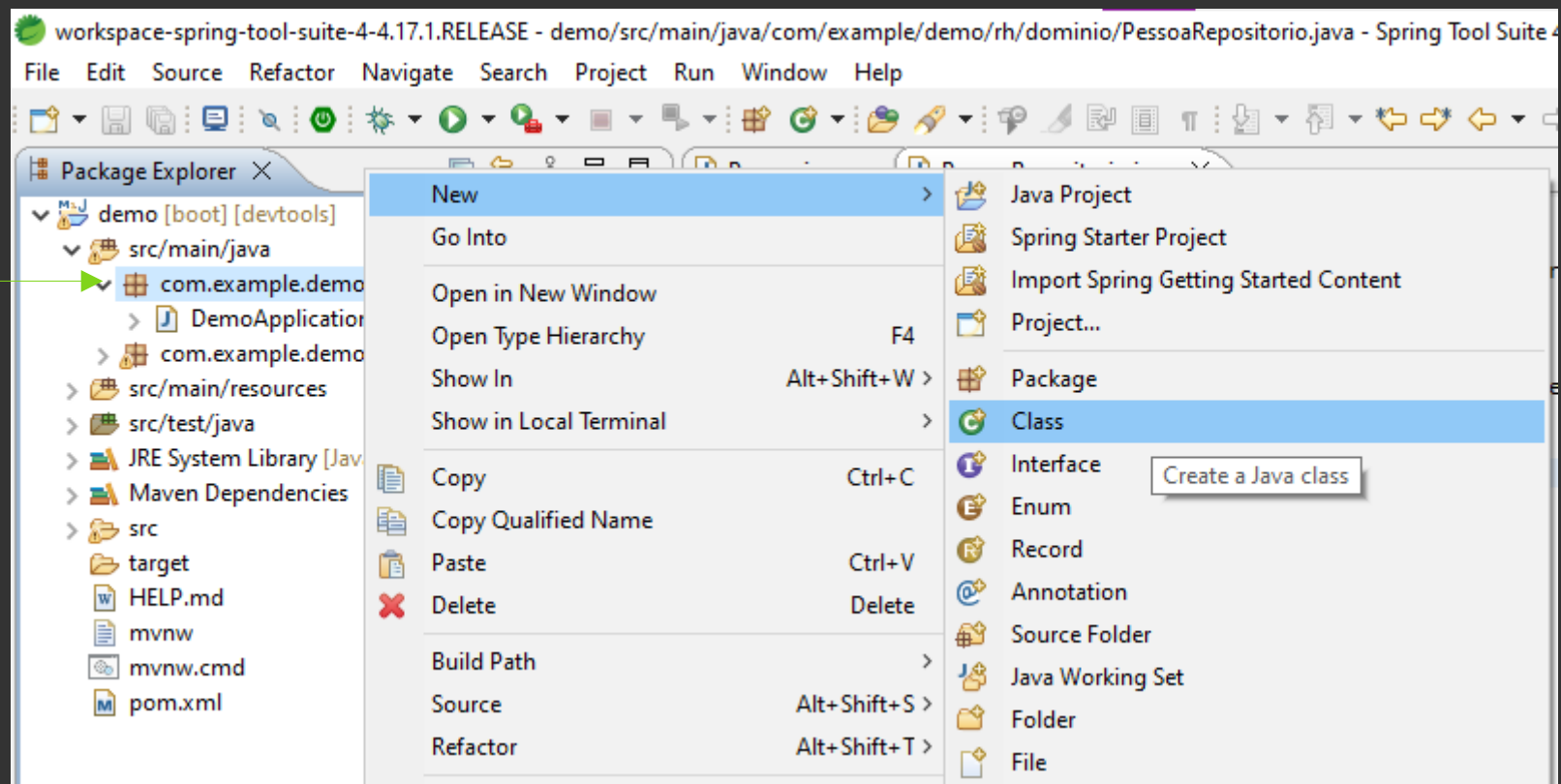
Finish

Cancel





Adicione o code acima



New Java Class

**Java Class**

Create a new Java class.

Source folder: demo/src/main/java Browse...

Package: com.example.demo Browse...

☐ Enclosing type: Browse...

Name: PopulacaoInicialBanco

Modifiers: ☒ public ☐ package ☐ private ☐ protected  
☐ abstract ☐ final ☐ static  
☒ none ☐ sealed ☐ non-sealed ☐ final

Superclass: java.lang.Object Browse...

Interfaces: Add...  
Remove

Which method stubs would you like to create?

☐ public static void main(String[] args)  
☐ Constructors from superclass  
☒ Inherited abstract methods

Do you want to add comments? (Configure templates and default value [here](#))

☐ Generate comments

? Finish Cancel

workspace-spring-tool-suite-4-4.17.1.RELEASE - demo/src/main/java/com/example/demo/PopulacaoInicialBanco.java - Spring Tool Suite 4

File Edit Source Refactor Navigate Search Project Run Window Help



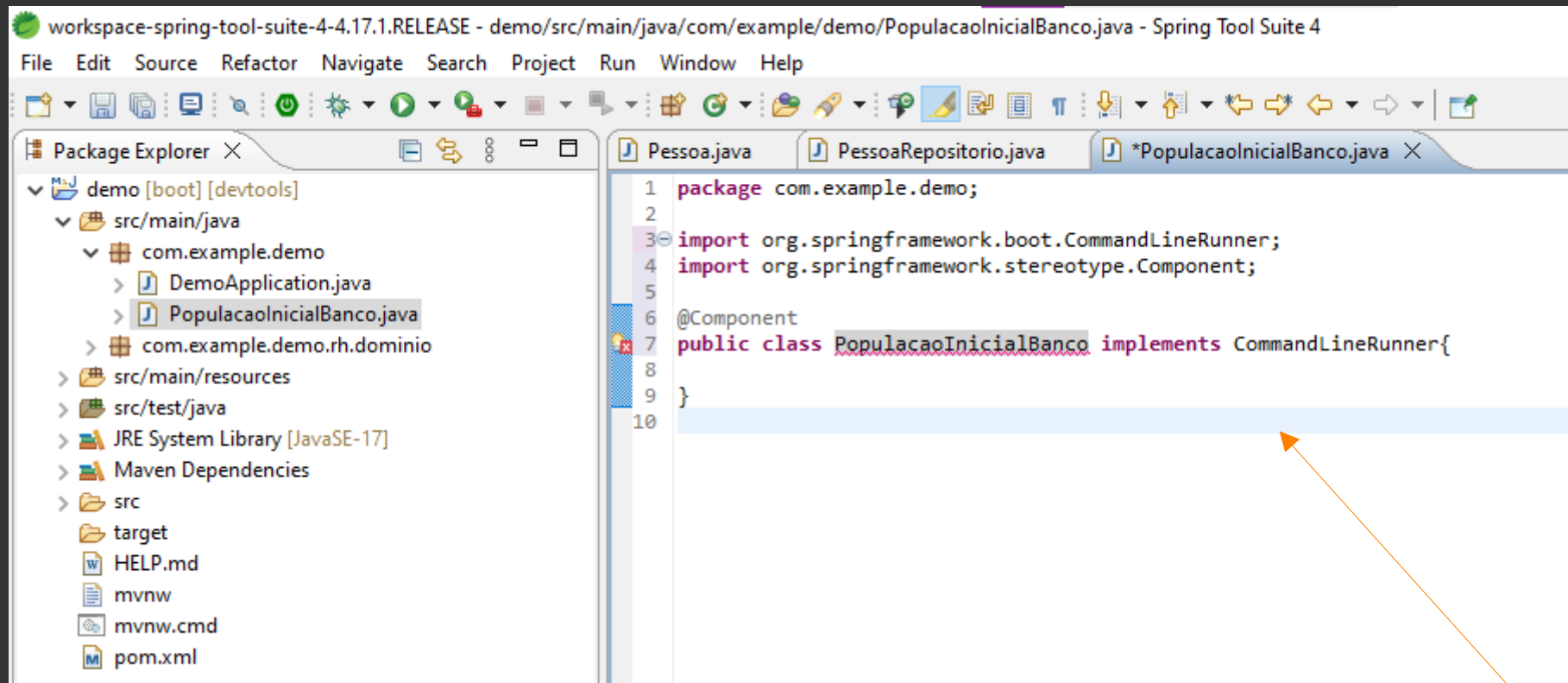
Package Explorer X

- demo [boot] [devtools]
  - src/main/java
    - com.example.demo
      - DemoApplication.java
      - PopulacaoInicialBanco.java
      - com.example.demo.rh.dominio
    - src/main/resources
    - src/test/java
    - JRE System Library [JavaSE-17]
    - Maven Dependencies
    - src
      - target
    - HELP.md
    - mvnw
    - mvnw.cmd
    - pom.xml

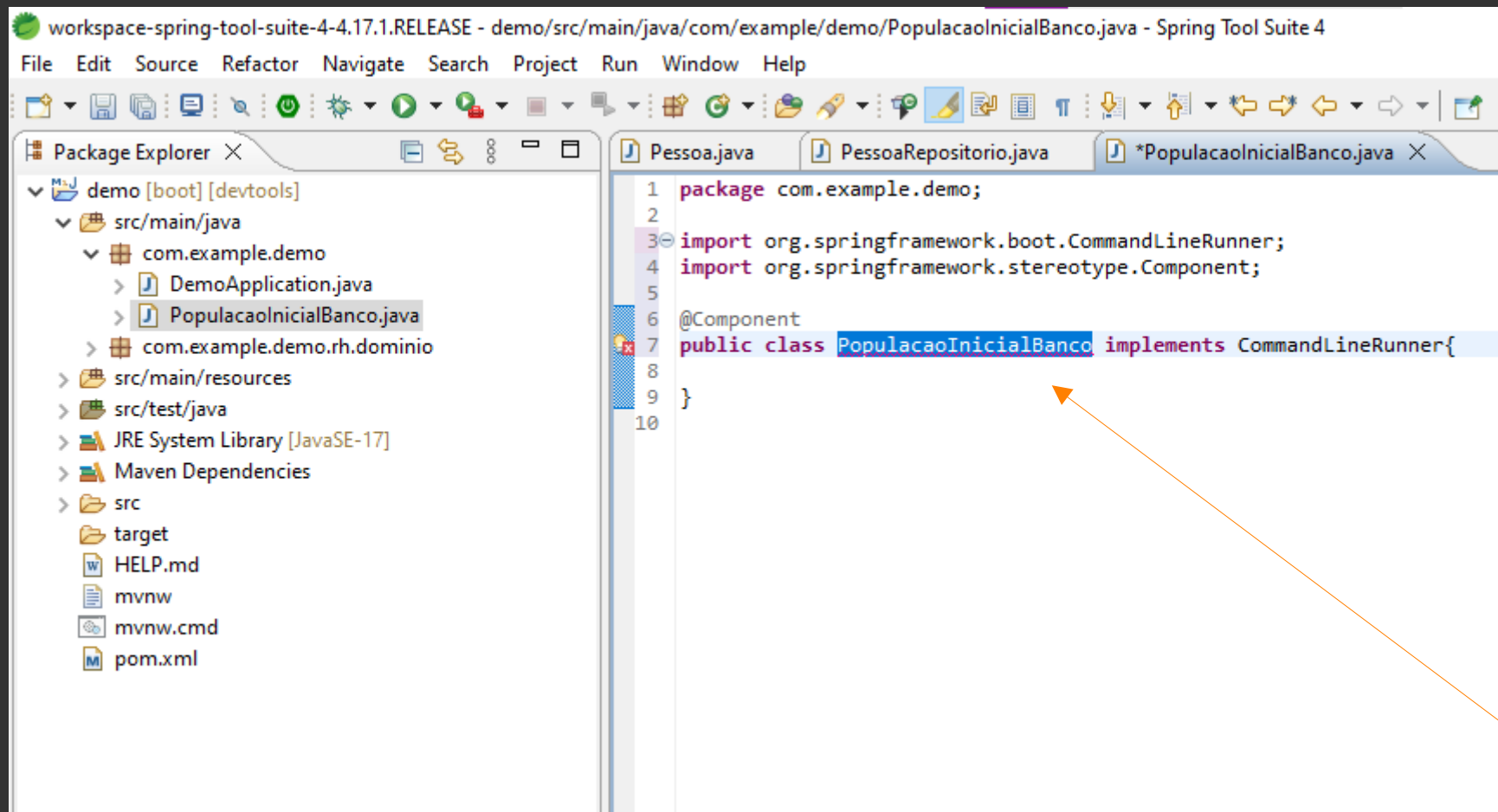
Pessoa.java PessoaRepositorio.java PopulacaoInicialBanco.java X

```
1 package com.example.demo;  
2  
3 public class PopulacaoInicialBanco {  
4  
5 }  
6
```





Digite o code acima e selecione PopulacaoInicialBanco



Nas opções que aparecem add unimplements methods



Package Explorer X

- demo [boot] [devtools]
  - src/main/java
    - com.example.demo
      - DemoApplication.java
      - PopulacaoInicialBanco.java
    - com.example.demo.rh.dominio
  - src/main/resources
  - src/test/java
  - JRE System Library [JavaSE-17]
  - Maven Dependencies
  - src
    - target
    - HELP.md
    - mvnw
    - mvnw.cmd
    - pom.xml

Pessoa.java

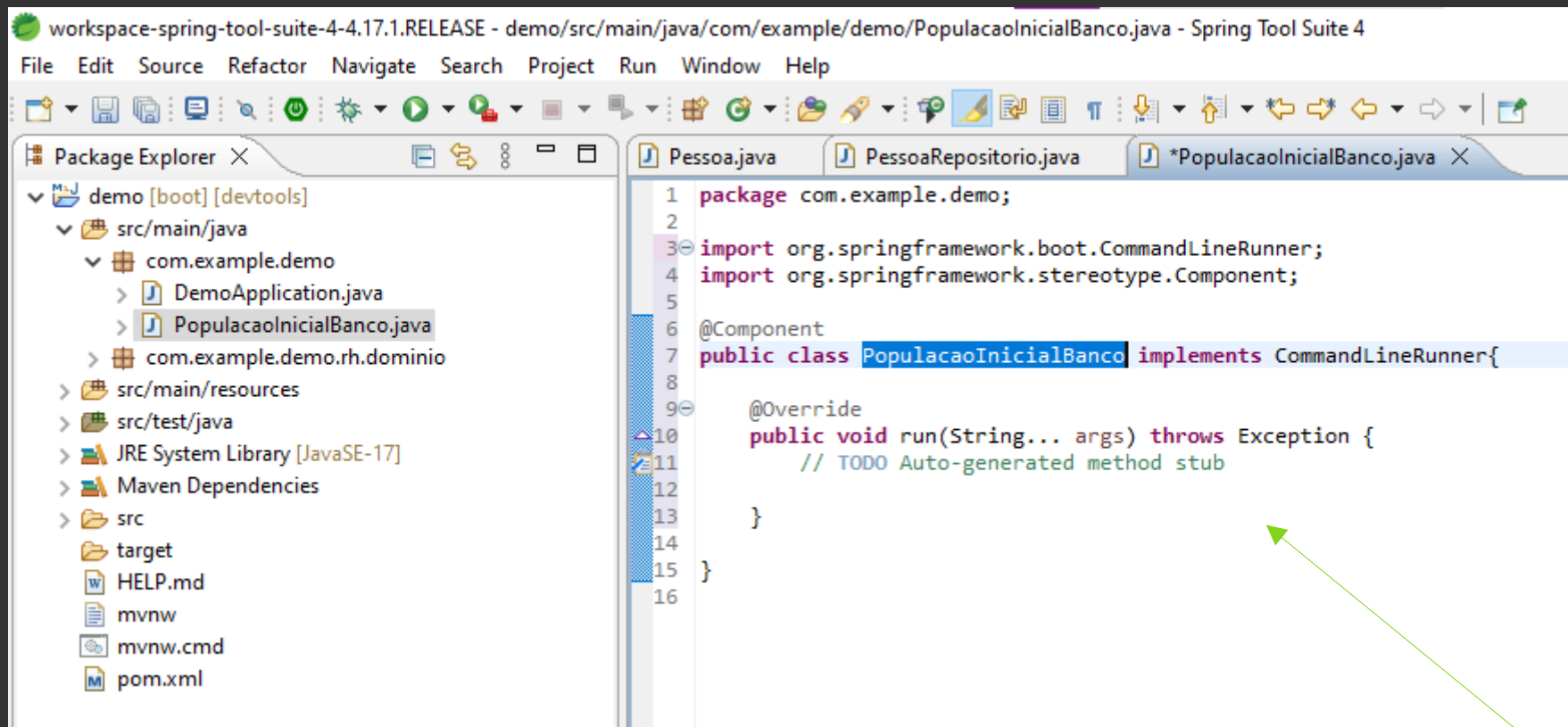
PessoaRepositorio.java

\*PopulacaoInicialBanco.java X

```
1 package com.example.demo;
2
3 import org.springframework.boot.CommandLineRunner;
4 import org.springframework.stereotype.Component;
5
6 @Component
7 public class PopulacaoInicialBanco implements CommandLineRunner{
8
9 }
10
```

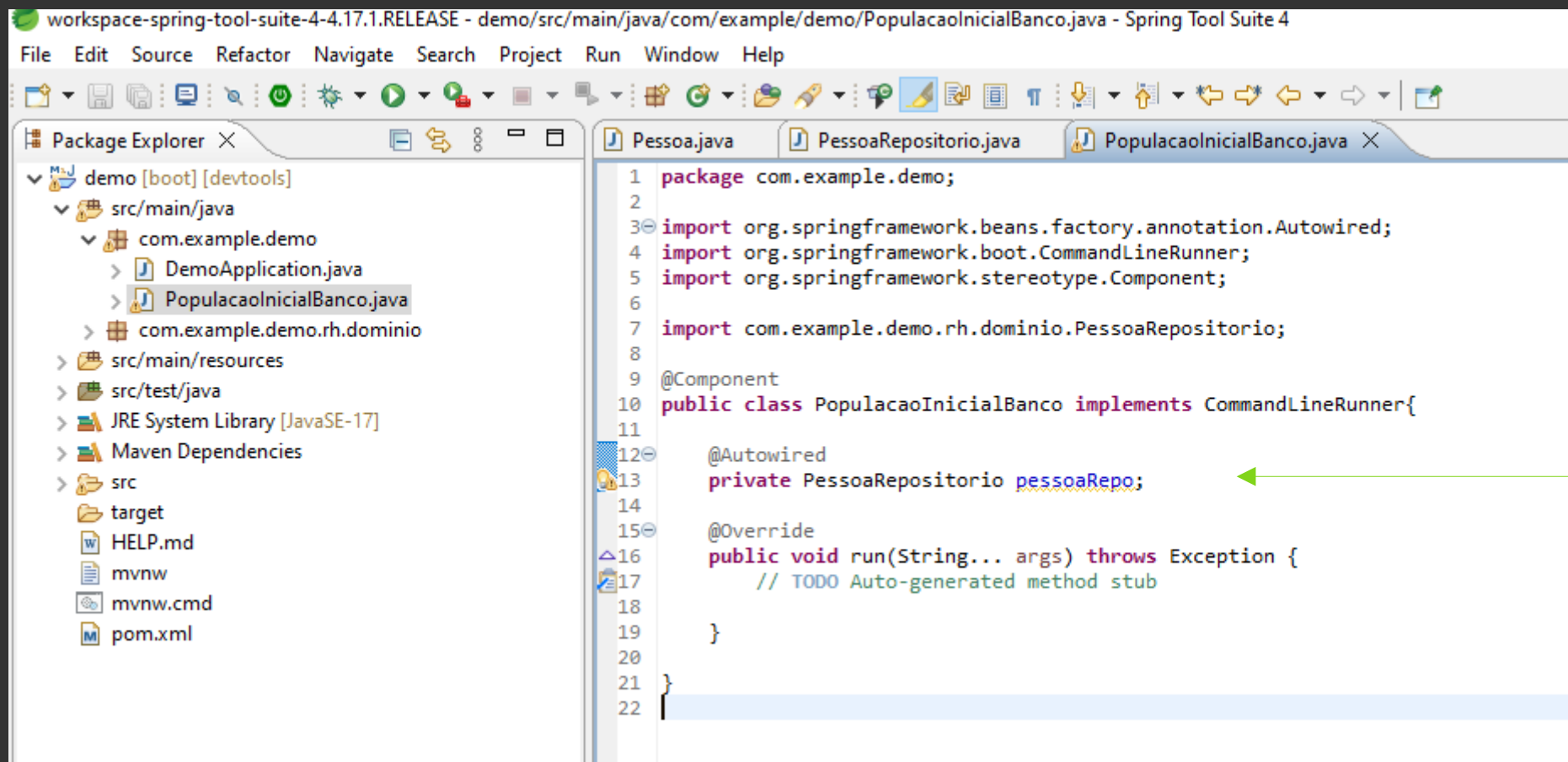
- Add unimplemented methods
- Create new JUnit test case for 'PopulacaoInicialBanco.java'
- Make type 'PopulacaoInicialBanco' abstract
- Rename in file (Ctrl+2, R)
- Rename in workspace

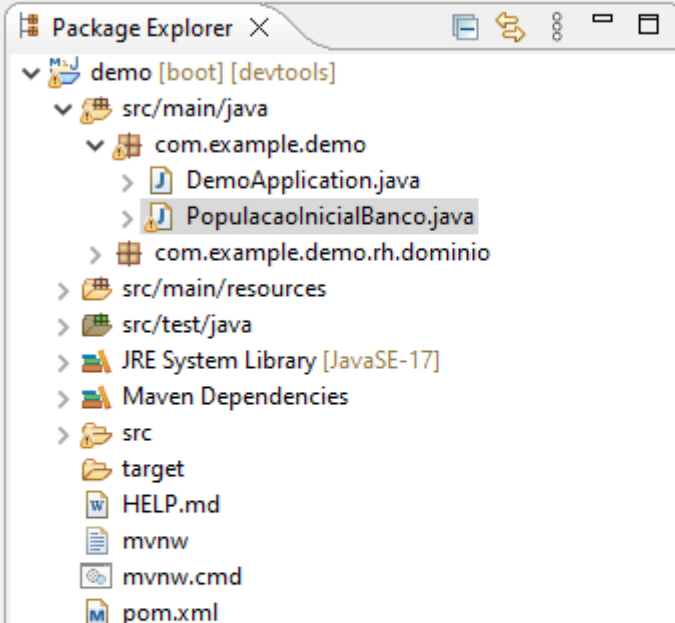
**1 method to implement:**  
- org.springframework.boot.Comm



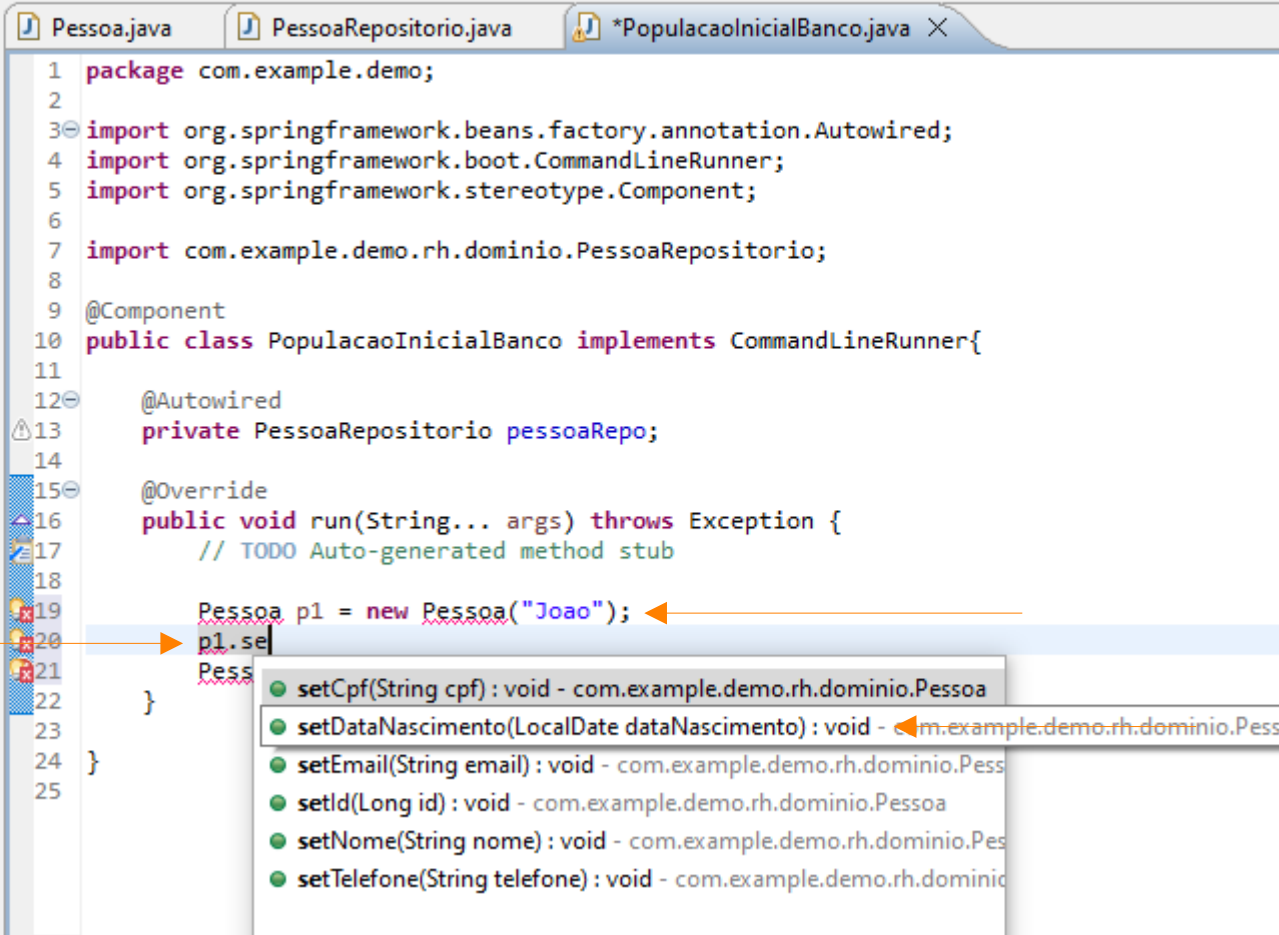
resultado

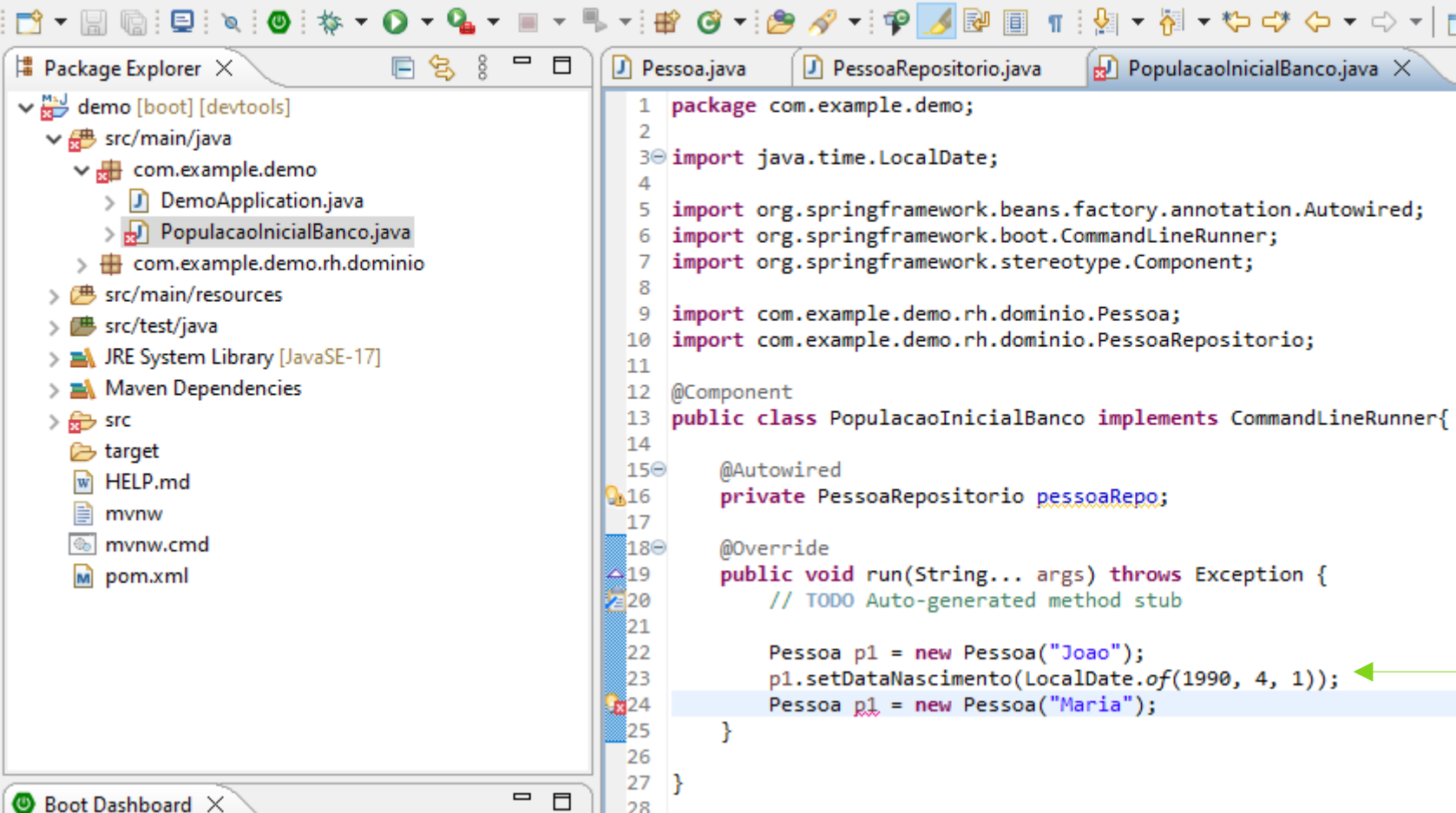
Adicione o code e daqui pra frente não usarei mais setas pra mostrar as Inserções de code





Crie o objeto e com o  
operador de ponto acesse  
as propriedades





Package Explorer

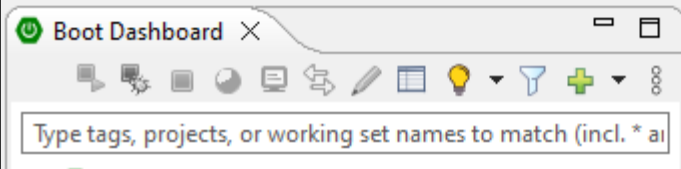
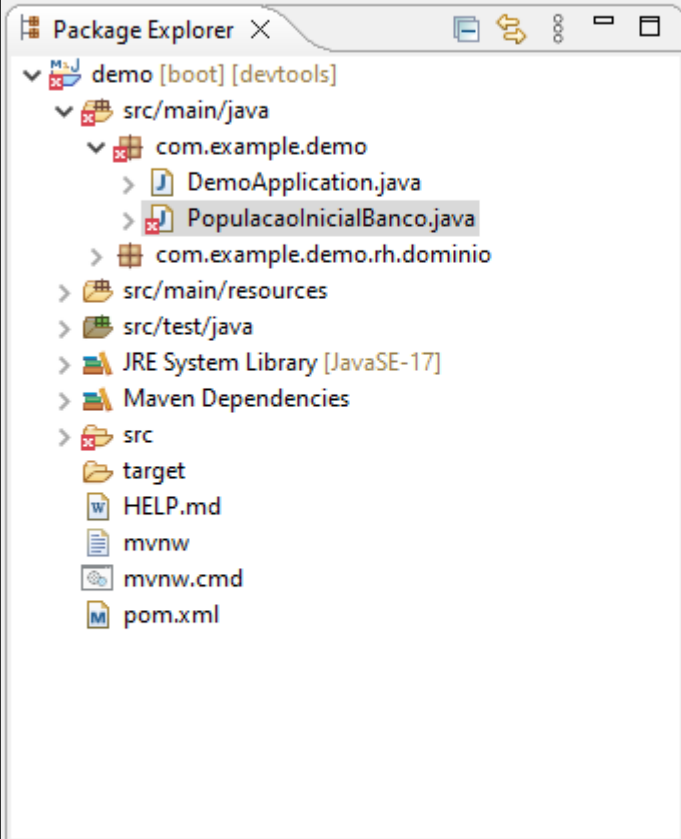
- demo [boot] [devtools]
  - src/main/java
    - com.example.demo
      - DemoApplication.java
      - PopulacaoInicialBanco.java
      - com.example.demo.rh.dominio
    - src/main/resources
    - src/test/java
    - JRE System Library [JavaSE-17]
    - Maven Dependencies
    - src
      - target
      - HELP.md
      - mvnw
      - mvnw.cmd
      - pom.xml

Personas.java

PersonasRepositorio.java

PopulacaoInicialBanco.java

```
1 package com.example.demo;
2
3 import java.time.LocalDate;
4
5 import org.springframework.beans.factory.annotation.Autowired;
6 import org.springframework.boot.CommandLineRunner;
7 import org.springframework.stereotype.Component;
8
9 import com.example.demo.rh.dominio.Pessoa;
10 import com.example.demo.rh.dominio.PessoaRepositorio;
11
12 @Component
13 public class PopulacaoInicialBanco implements CommandLineRunner{
14
15     @Autowired
16     private PessoaRepositorio pessoaRepo;
17
18     @Override
19     public void run(String... args) throws Exception {
20         // TODO Auto-generated method stub
21
22         Pessoa p1 = new Pessoa("Joao");
23         p1.setDataNascimento(LocalDate.of(1990, 4, 1));
24         Pessoa p1 = new Pessoa("Maria");
25     }
26
27 }
28
```



```
Pessoa.java  PessoaRepositorio.java  *PopulacaoInicialBanco.java X
1 package com.example.demo;
2
3 import java.time.LocalDate;
4
5 import org.springframework.beans.factory.annotation.Autowired;
6 import org.springframework.boot.CommandLineRunner;
7 import org.springframework.stereotype.Component;
8
9 import com.example.demo.rh.dominio.Pessoa;
10 import com.example.demo.rh.dominio.PessoaRepositorio;
11
12 @Component
13 public class PopulacaoInicialBanco implements CommandLineRunner{
14
15     @Autowired
16     private PessoaRepositorio pessoaRepo;
17
18     @Override
19     public void run(String... args) throws Exception {
20         // TODO Auto-generated method stub
21
22         Pessoa p1 = new Pessoa("Joao");
23         p1.setDataNascimento(LocalDate.of(1990, 4, 1));
24         p1.se
25         Pess
26     }
27
28 }
29
```

- setCpf(String cpf) : void - Pessoa
- setDataNascimento(LocalDate dataNascimento) : void - Pessoa
- setEmail(String email) : void - Pessoa
- setId(Long id) : void - Pessoa
- setNome(String nome) : void - Pessoa
- setTelefone(String telefone) : void - Pessoa



```
19 public void run(String... args) throws Exception {  
20     // TODO Auto-generated method stub  
21  
22     Pessoa p1 = new Pessoa("Joao");  
23     p1.setDataNascimento(LocalDate.of(1990, 4, 1));  
24     p1.setEmail("joao@gmail.com");  
25     Pessoa p1 = new Pessoa("Maria");  
26 }  
27  
28 }  
29
```

Copy essas info para um novo objeto



Package Explorer

- demo [boot] [devtools]
  - src/main/java
    - com.example.demo
      - DemoApplication.java
      - PopulacaoInicialBanco.java
    - com.example.demo.rh.dominio
  - src/main/resources
  - src/test/java
  - JRE System Library [JavaSE-17]
  - Maven Dependencies
  - src
    - target
    - HELP.md
    - mvnw
    - mvnw.cmd
    - pom.xml

Pessoa.java

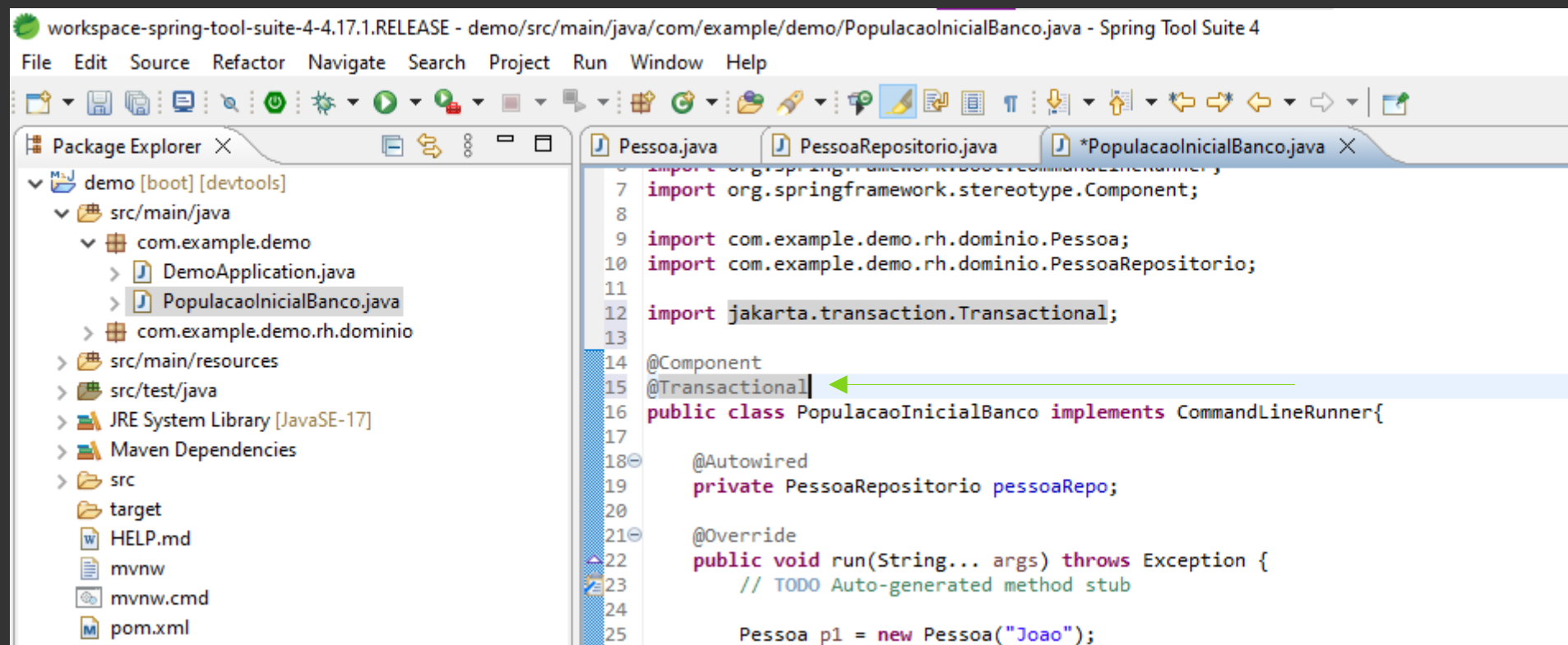
PessoaRepository.java

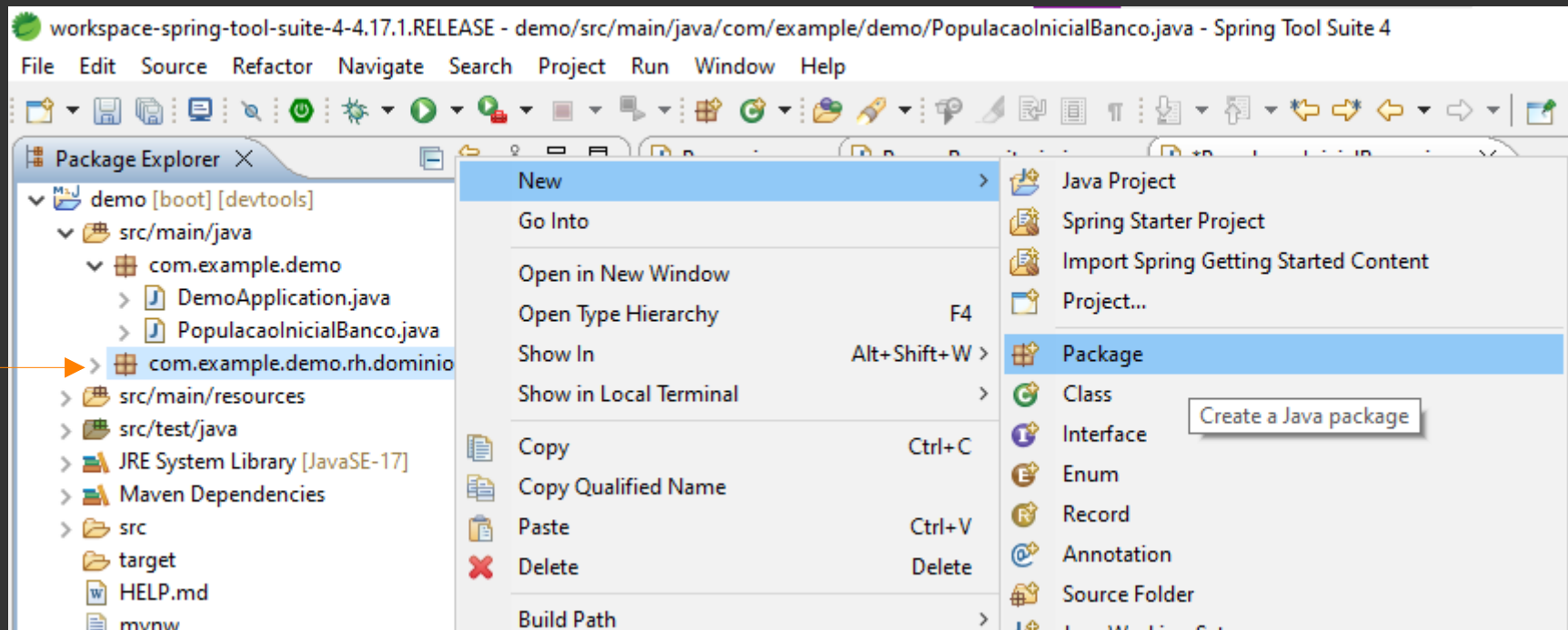
PopulacaoInicialBanco.java

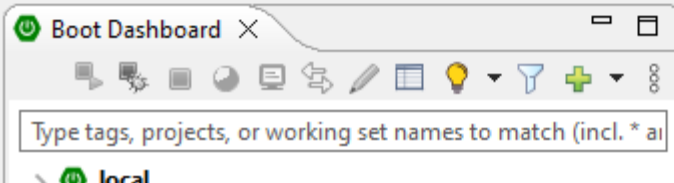
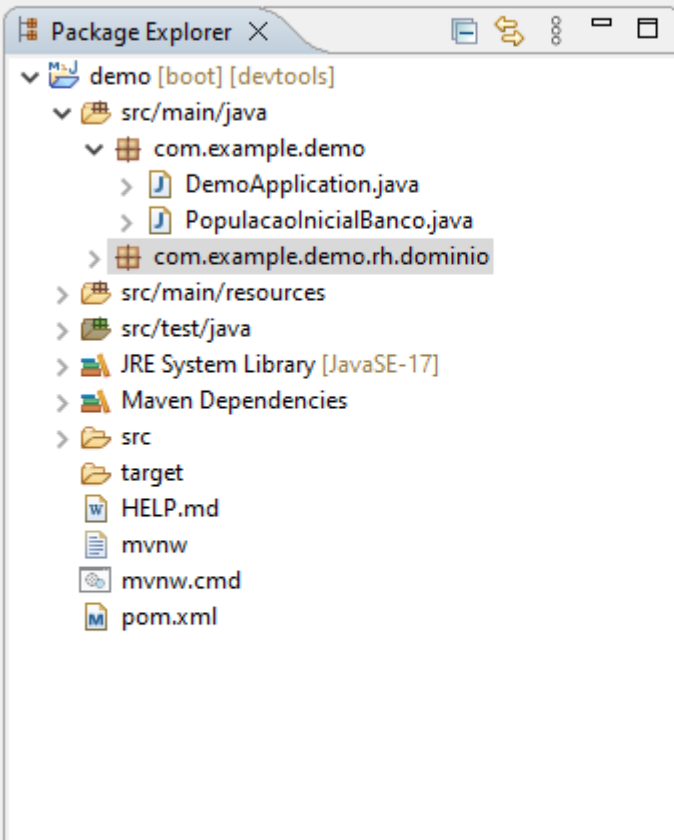
```
5 import org.springframework.beans.factory.annotation.Autowired;
6 import org.springframework.boot.CommandLineRunner;
7 import org.springframework.stereotype.Component;
8
9 import com.example.demo.rh.dominio.Pessoa;
10 import com.example.demo.rh.dominio.PessoaRepository;
11
12 @Component
13 public class PopulacaoInicialBanco implements CommandLineRunner{
14
15     @Autowired
16     private PessoaRepository pessoaRepo;
17
18     @Override
19     public void run(String... args) throws Exception {
20         // TODO Auto-generated method stub
21
22         Pessoa p1 = new Pessoa("Joao");
23         p1.setDataNascimento(LocalDate.of(1990, 4, 1));
24         p1.setEmail("joao@gmail.com");
25         Pessoa p2 = new Pessoa("Maria");
26         p1.setDataNascimento(LocalDate.of(1990, 1, 1));
27         p1.setEmail("maria@gmail.com");
28
29         pessoaRepo.save(p1);
30         pessoaRepo.save(p2);
31     }
32
33 }
```

Boot Dashboard

## Adicione essa anotation

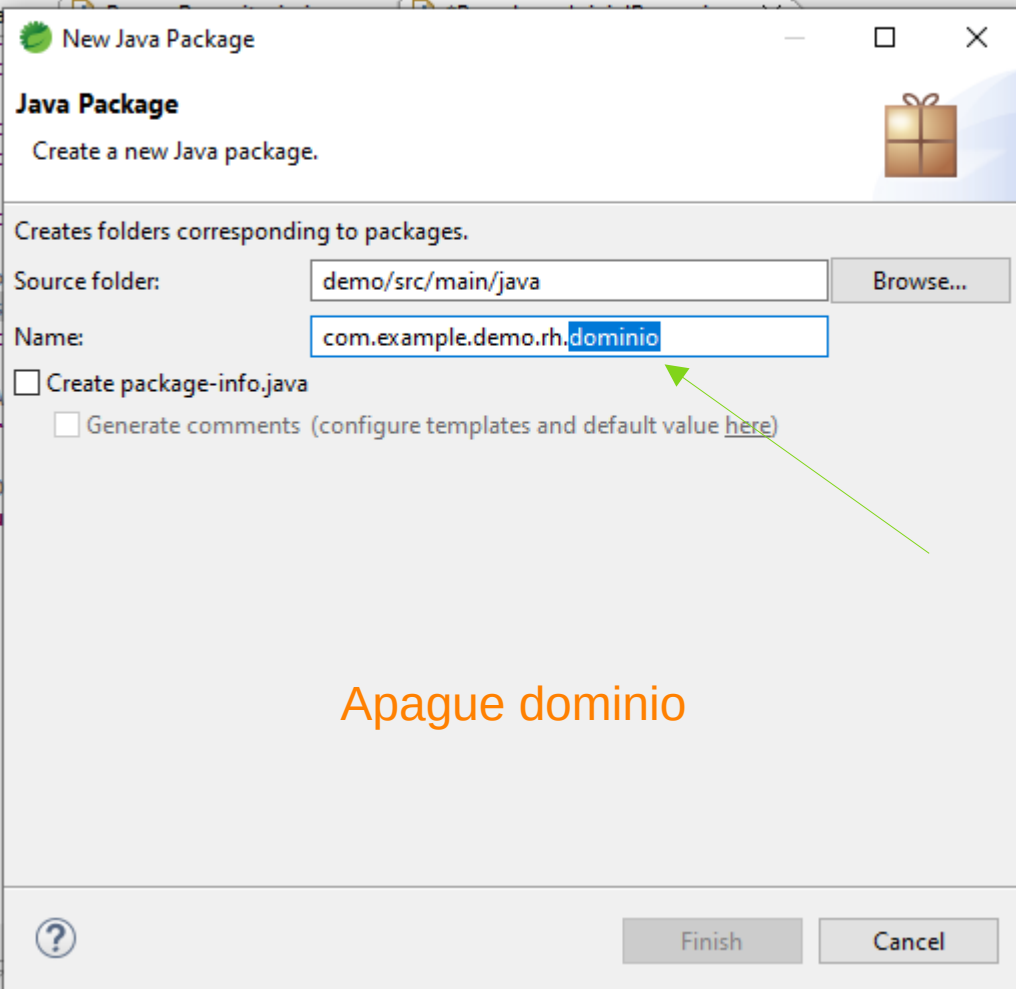






Pessoa.java

```
7 import
8
9 import
10 import
11
12 import
13
14 @Compo
15 @Trans
16 public
17
18 @A
19 pr
20
21 @O
22 pu
23
24
25
26
27
28
29
30
31
32
33
34
35
```



Package Explorer X

demo [boot] [devtools]

- src/main/java
  - com.example.demo
    - DemoApplication.java
    - PopulacaoInicialBanco.java
    - com.example.demo.rh.dominio
  - src/main/resources
  - src/test/java
  - JRE System Library [JavaSE-17]
  - Maven Dependencies
  - src
    - target
    - HELP.md
    - mvnw
    - mvnw.cmd
    - pom.xml

Boot Dashboard X

Type tags, projects, or working set names to match (incl. \* al

Pessoa.java

```
7 import
8
9 import
10 import
11
12 import
13
14 @Compo
15 @Trans
16 public
17
18
19 @A
20 pr
21
22 @O
23 pu
24
25
26
27
28
29
30
31
32
33
34
35 }
```

New Java Package

## Java Package

Create a new Java package.

Creates folders corresponding to packages.

Source folder: demo/src/main/java

Browse...

Name: com.example.demo.rh.controle

☐ Create package-info.java☐ Generate comments (configure templates and default value [here](#))

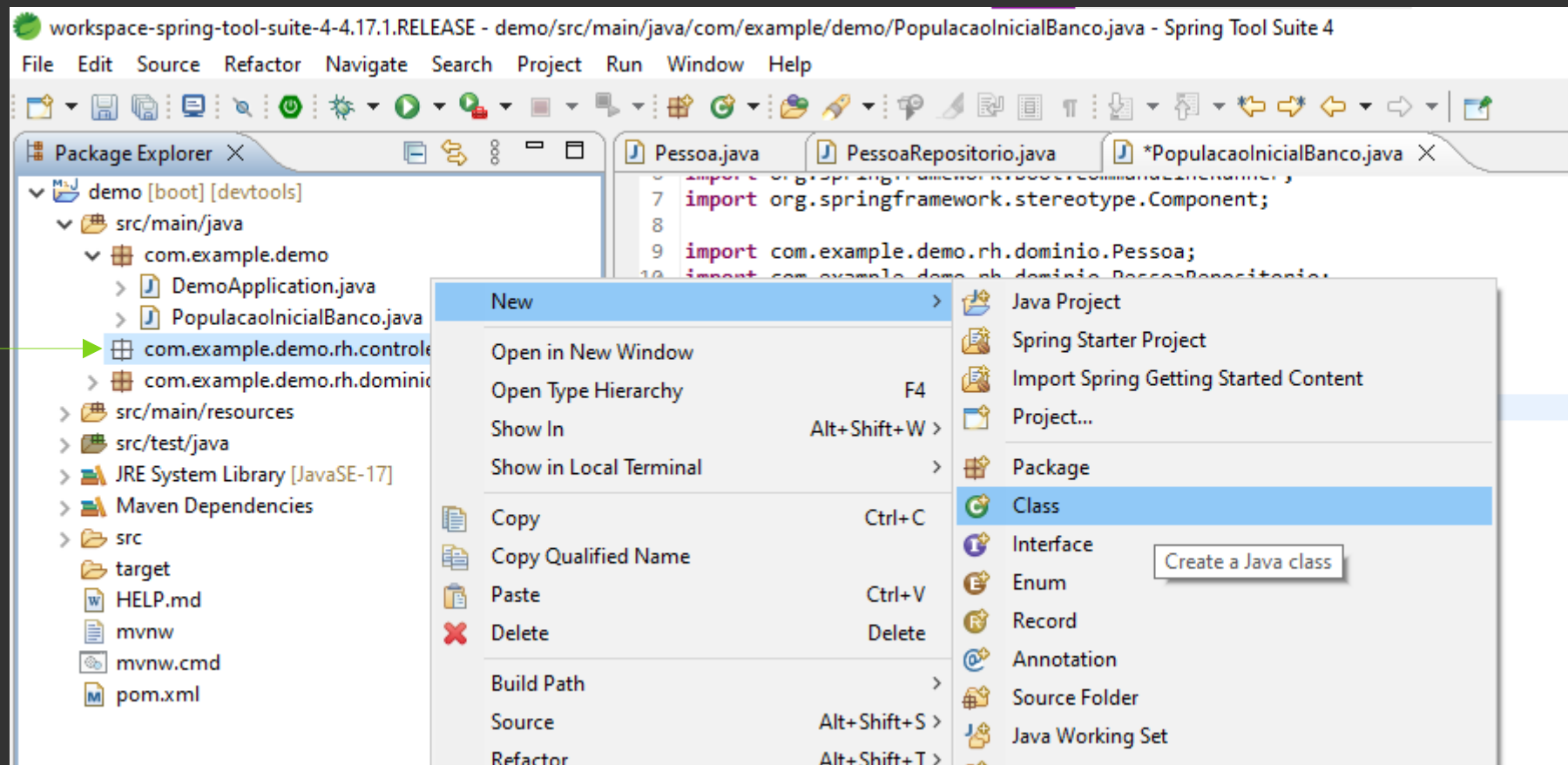
E coloque controle



Finish

Cancel

## Crie uma class no pacote criado controle



## New Java Class

### Java Class

Create a new Java class.



Source folder: demo/src/main/java

Browse...

Package: com.example.demo.rh.controle

Browse...

☐ Enclosing type:

Browse...

Name: PessoaControle

Modifiers: ☒ public ☐ package ☐ private ☐ protected

☐ abstract ☐ final ☐ static

☒ none ☐ sealed ☐ non-sealed ☐ final

Superclass: java.lang.Object

Browse...

Interfaces:

Add...

Remove

Which method stubs would you like to create?

☐ public static void main(String[] args)

☐ Constructors from superclass

☒ Inherited abstract methods

Do you want to add comments? (Configure templates and default value [here](#))

☐ Generate comments



Finish

Cancel





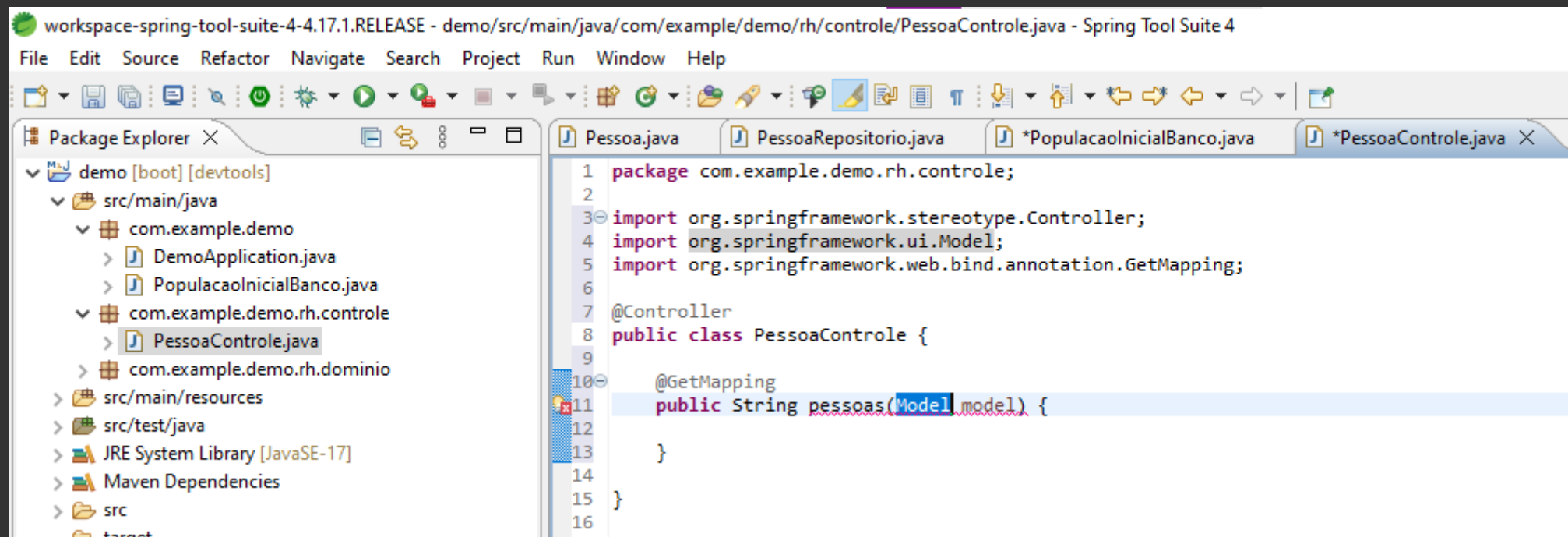
Package Explorer

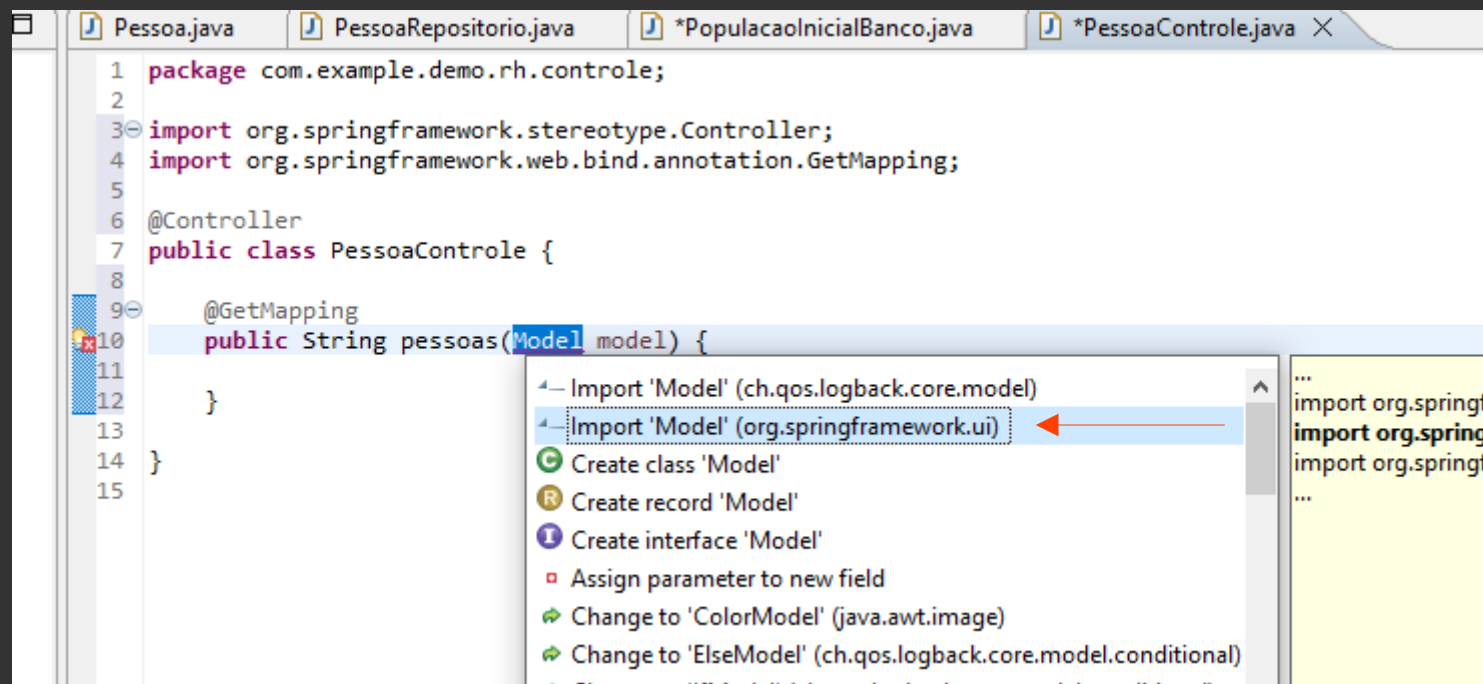
- demo [boot] [devtools]
  - src/main/java
    - com.example.demo
      - DemoApplication.java
      - PopulacaoInicialBanco.java
    - com.example.demo.rh.controle
      - PessoaControle.java
    - com.example.demo.rh.dominio
  - src/main/resources
  - src/test/java
  - JRE System Library [JavaSE-17]
  - Maven Dependencies
  - src
    - target
    - HELP.md
    - mvnw
    - mvnw.cmd
    - pom.xml

Pessoa.java PessoaRepositorio.java \*PopulacaoInicialBanco.java PessoaControle.java

```
1 package com.example.demo.rh.controle;
2
3 public class PessoaControle {
4
5 }
6
```

Digite o code e preste atenção aos imports  
Obs importe do pacote certo







Package Explorer

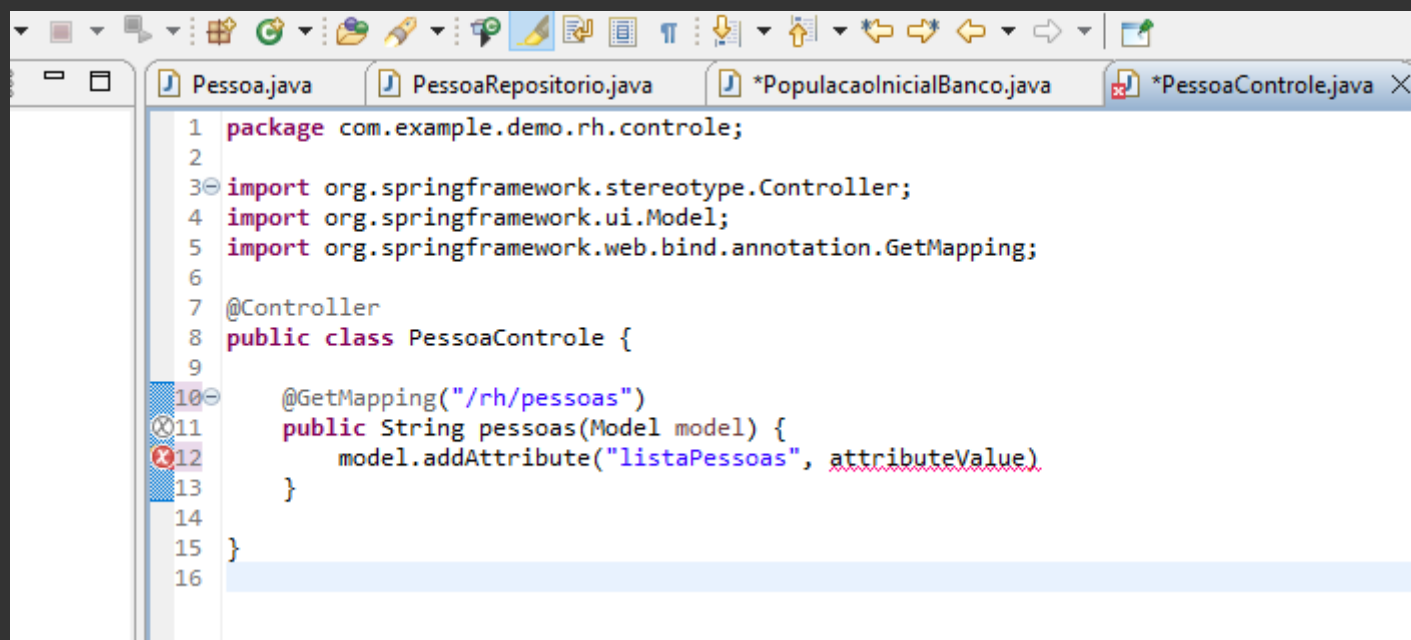
- demo [boot] [devtools]
  - src/main/java
    - com.example.demo
      - DemoApplication.java
      - PopulacaoInicialBanco.java
    - com.example.demo.rh.controle
      - PessoaControle.java
    - com.example.demo.rh.dominio
  - src/main/resources
  - src/test/java
  - JRE System Library [JavaSE-17]
  - Maven Dependencies
  - src
    - target
    - HELP.md
    - mvnw
    - mvnw.cmd
    - pom.xml

Personas.java    PessoaRepositorio.java    \*PopulacaoInicialBanco.java    \*PessoaControle.java

```
1 package com.example.demo.rh.controle;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.ui.Model;
5 import org.springframework.web.bind.annotation.GetMapping;
6
7 @Controller
8 public class PessoaControle {
9
10     @GetMapping
11     public String pessoas(Model model) {
12         model.addAttribute
13     }
14 }
15
16 }
17
```

addAttribute(Object attributeValue) : Model - Model  
addAttribute(String attributeName, Object attributeValue) : Model - Model

Add the supplied attribute under the supplied name.  
Parameters:  
attributeName the name of the model attribute.  
attributeValue the model attribute value (Object).



```
1 package com.example.demo.rh.controle;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.ui.Model;
5 import org.springframework.web.bind.annotation.GetMapping;
6
7 @Controller
8 public class PessoaControle {
9
10     @GetMapping("/rh/pessoas")
11     public String pessoas(Model model) {
12         model.addAttribute("listaPessoas", attributeValue);
13     }
14
15 }
16
```



Package Explorer

- demo [boot] [devtools]
  - src/main/java
    - com.example.demo
      - DemoApplication.java
      - PopulacaoInicialBanco.java
    - com.example.demo.rh.controle
      - PessoaControle.java
    - com.example.demo.rh.dominio
  - src/main/resources
  - src/test/java
  - JRE System Library [JavaSE-17]
  - Maven Dependencies
  - src
    - target
    - HELP.md
    - mvnw
    - mvnw.cmd
    - pom.xml

Personas.java    PessoaRepositorio.java    \*PopulacaoInicialBanco.java    \*PessoaControle.java

```
1 package com.example.demo.rh.controle;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.ui.Model;
5 import org.springframework.web.bind.annotation.GetMapping;
6
7 @Controller
8 public class PessoaControle {
9
10     private PessoaRepositorio pessoasRepo;
11
12     @GetMapping
13     public String model
14
15     }
16 }
17
18
```

Import 'PessoaRepositorio' (com.example.demo.rh.dominio)

- Create class 'PessoaRepositorio'
- Create record 'PessoaRepositorio'
- Create interface 'PessoaRepositorio'
- Create enum 'PessoaRepositorio'
- Add type parameter 'PessoaRepositorio' to 'PessoaControle'
- Rename in file (Ctrl+2, R)
- Fix project setup...

Outline

- com.example.
  - PessoaControle
    - pessoasRep
    - pessoas(M

```
...
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;

import com.example.demo.rh.dominio.PessoaRepositorio;
...
```

Press 'Tab' from proposal table or click for focus

workspace-spring-tool-suite-4-4.17.1.RELEASE - demo/src/main/java/com/example/demo/rh/controle/PessoaControle.java - Spring Tool Suite 4

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer

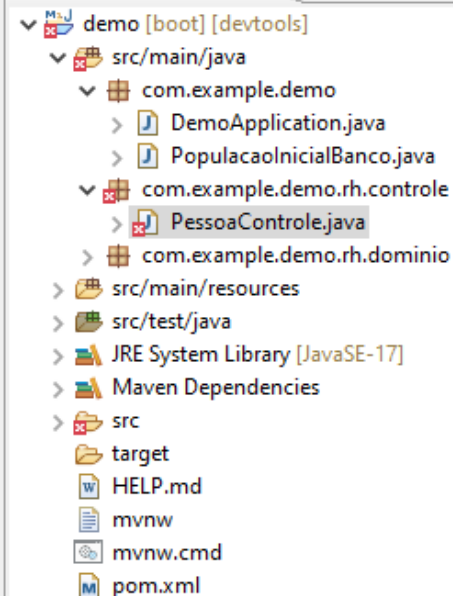
- demo [boot] [devtools]
  - src/main/java
    - com.example.demo
      - DemoApplication.java
      - PopulacaoInicialBanco.java
      - com.example.demo.rh.controle
        - PessoaControle.java
      - com.example.demo.rh.dominio
    - src/main/resources
    - src/test/java
    - JRE System Library [JavaSE-17]
    - Maven Dependencies
    - src
      - target
      - HELP.md
      - mvnw
      - mvnw.cmd
      - pom.xml

Pessoa.java PessoaRepositorio.java \*PopulacaoInicialBanco.java \*Pes

```
1 package com.example.demo.rh.controle;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.ui.Model;
5 import org.springframework.web.bind.annotation.GetMapping;
6
7 import com.example.demo.rh.dominio.PessoaRepositorio;
8
9 @Controller
10 public class PessoaControle {
11
12     private PessoaRepositorio pessoasRepo;
13
14     @GetMapping("/rh/pessoas")
15     public String pessoas(Model model) {
16         model.addAttribute("listaPessoas", attributeValue);
17     }
18
19 }
20
```



Package Explorer X



Boot Dashboard X



Pessoa.java

PessoaRepositorio.java

\*PopulacaoInicialBanco.java

\*PessoaControle.java X

```
1 package com.example.demo.rh.controle;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.ui.Model;
5 import org.springframework.web.bind.annotation.GetMapping;
6
7 import com.example.demo.rh.dominio.PessoaRepositorio;
8
9 @Controller
10 public class PessoaControle {
11
12     private PessoaRepositorio pessoaRepo;
13
14     public PessoaControle(PessoaRepositorio pessoaRepo) {
15         this.pessoaRepo = pessoaRepo;
16     }
17
18
19     @GetMapping("/rh/pessoas")
20     public String pessoas(Model model) {
21         model.addAttribute("listaPessoas", pessoaRepo.findAll());
22     }
23 }
```

Returns all instances of the type.  
Specified by: [findAll\(\)](#) in [CrudRepository](#)  
Returns:  
all entities

findAll() : List<Pessoa> - ListCrudRepository  
findAll(Example<S> example) : List<S> - JpaRepository  
findAll(Pageable pageable) : Page<Pessoa> - PagingAndSorting  
findAll(Sort sort) : List<Pessoa> - ListPagingAndSortingRepository  
findAll(Example<S> example, Pageable pageable) : Page<S> - JpaRepository  
findAll(Example<S> example, Sort sort) : List<S> - JpaRepository  
findAllById(Iterable<Long> ids) : List<Pessoa> - ListCrudRepository





Package Explorer X

- demo [boot] [devtools]
  - src/main/java
    - com.example.demo
      - DemoApplication.java
      - PopulacaoInicialBanco.java
    - com.example.demo.rh.controle
      - PessoaControle.java
    - com.example.demo.rh.dominio
  - src/main/resources
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  - JRE System Library [JavaSE-17]
  - Maven Dependencies
  - src
    - target
    - HELP.md
    - mvnw
    - mvnw.cmd
    - pom.xml

Pessoa.java

PessoaRepositorio.java

\*PopulacaoInicialBanco.java

PessoaControle.java X

```
1 package com.example.demo.rh.controle;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.ui.Model;
5 import org.springframework.web.bind.annotation.GetMapping;
6
7 import com.example.demo.rh.dominio.PessoaRepositorio;
8
9 @Controller
10 public class PessoaControle {
11
12     private PessoaRepositorio pessoaRepo;
13
14     public PessoaControle(PessoaRepositorio pessoaRepo) {
15         this.pessoaRepo = pessoaRepo;
16     }
17
18
19     @GetMapping("/rh/pessoas")
20     public String pessoas(Model model) {
21         model.addAttribute("listaPessoas", pessoaRepo.findAll());
22         return "rh/pessoas/index";
23     }
24
25 }
26
```



