

# INSTALAÇÃO DAS FERRAMENTAS DE DESENVOLVIMENTO



Java com Temurin for Windows e  
Spring Tools Suite

# INSTALAÇÃO TEMURIN

Acesse o link abaixo e faça download da ferramenta:

<https://adoptium.net/>

## Prebuilt OpenJDK Binaries for Free!

Java™ is the world's leading programming language and platform. The Adoptium Working Group promotes and supports high-quality, TCK certified runtimes and associated technology for use across the Java ecosystem. Eclipse Temurin is the name of the OpenJDK distribution from Adoptium.

Download Temurin™ for Windows x64

📄 Latest LTS Release

jdk-17.0.7+7

Other platforms and versions ↻

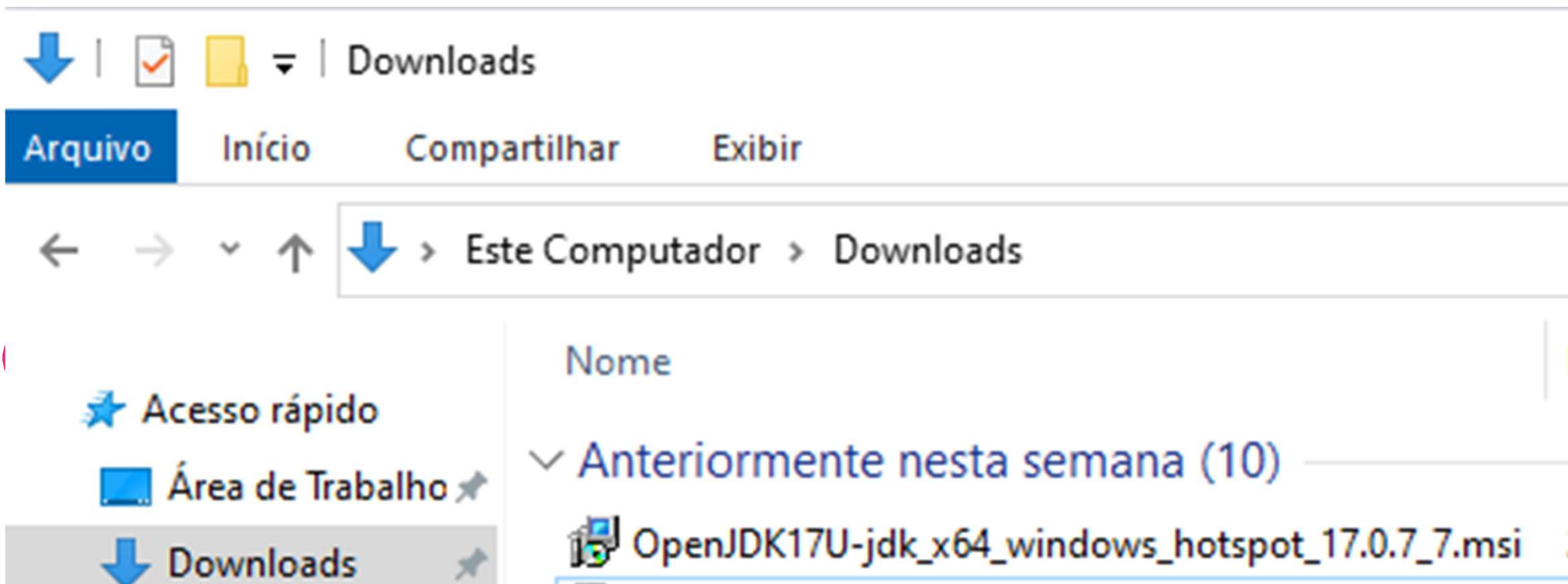
Release Archive 📁



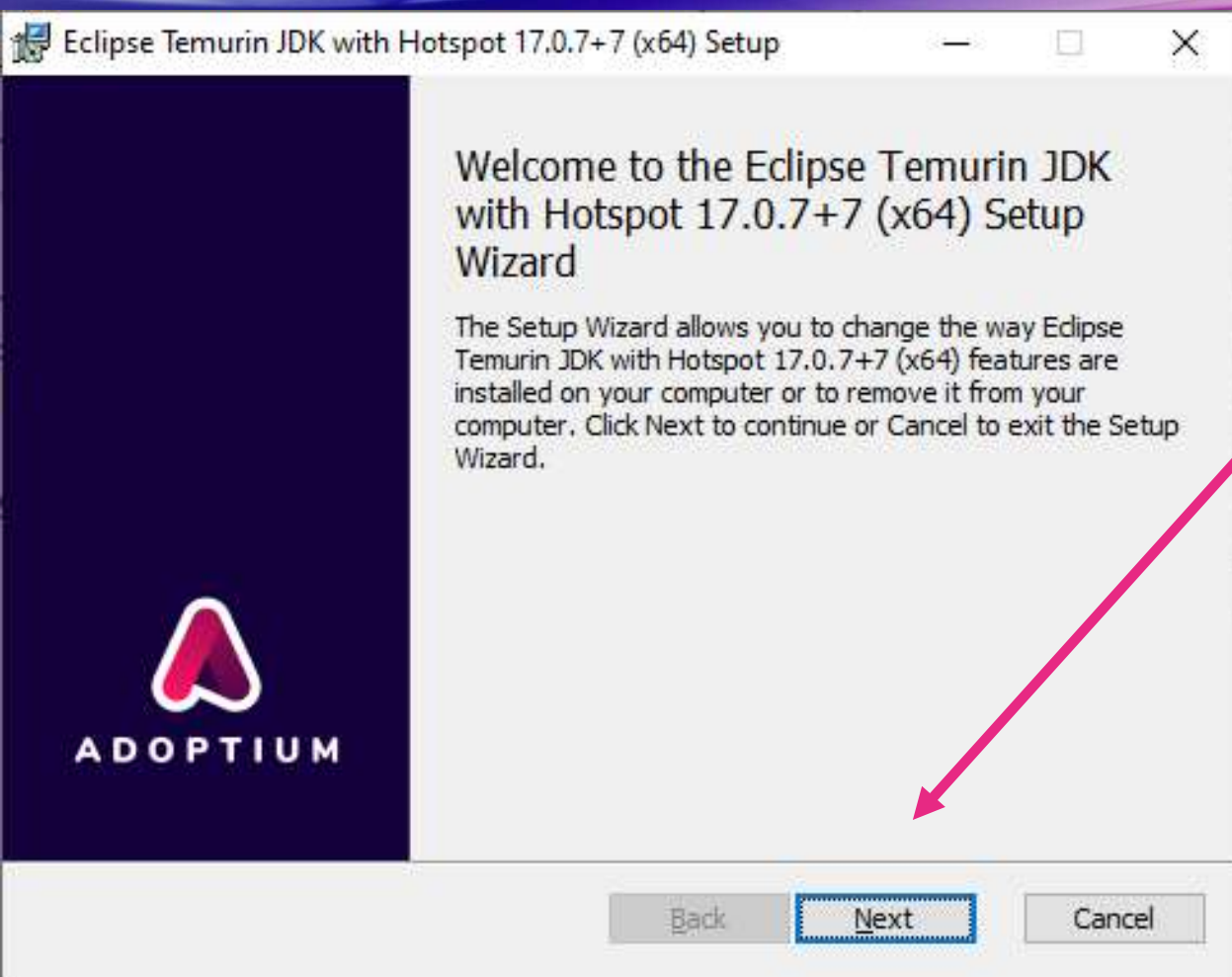
# INSTALAÇÃO TEMURIN

Acesse a pasta downloads e execute o arquivo baixado, clicando 2x sobre ele.

Siga a instalação do Java



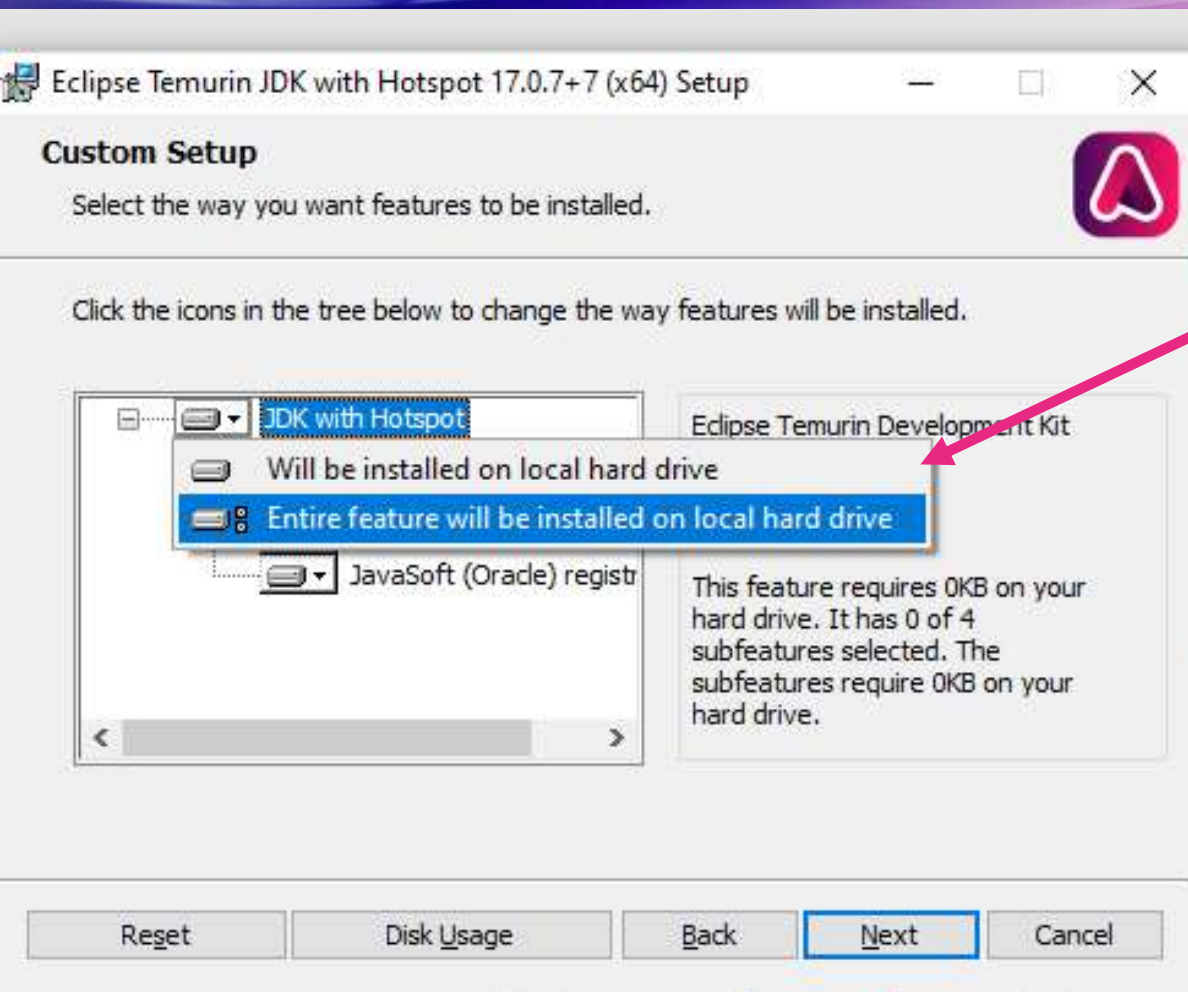
# INSTALAÇÃO TEMURIN



Clique no botão  
Next

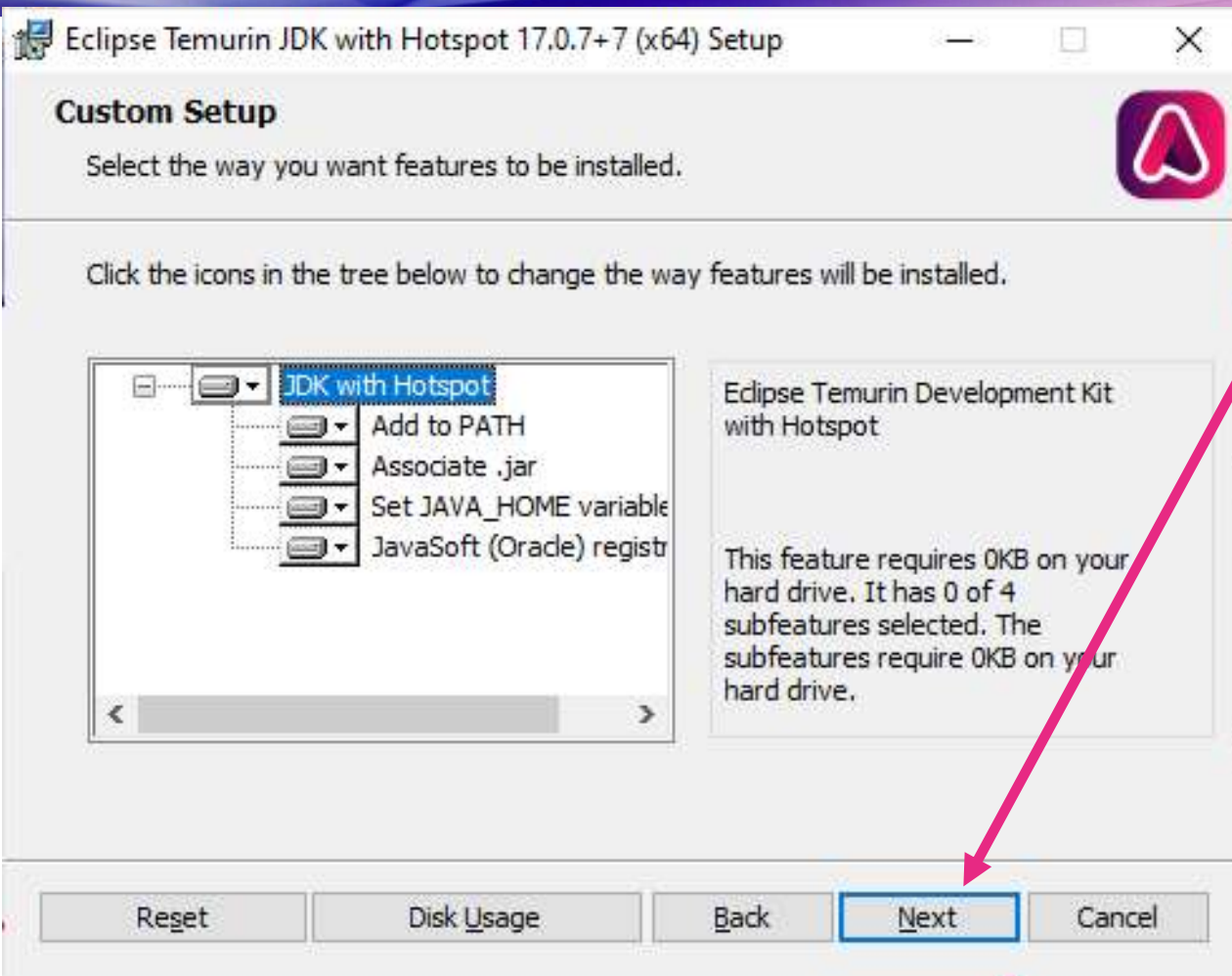


# INSTALAÇÃO TEMURIN



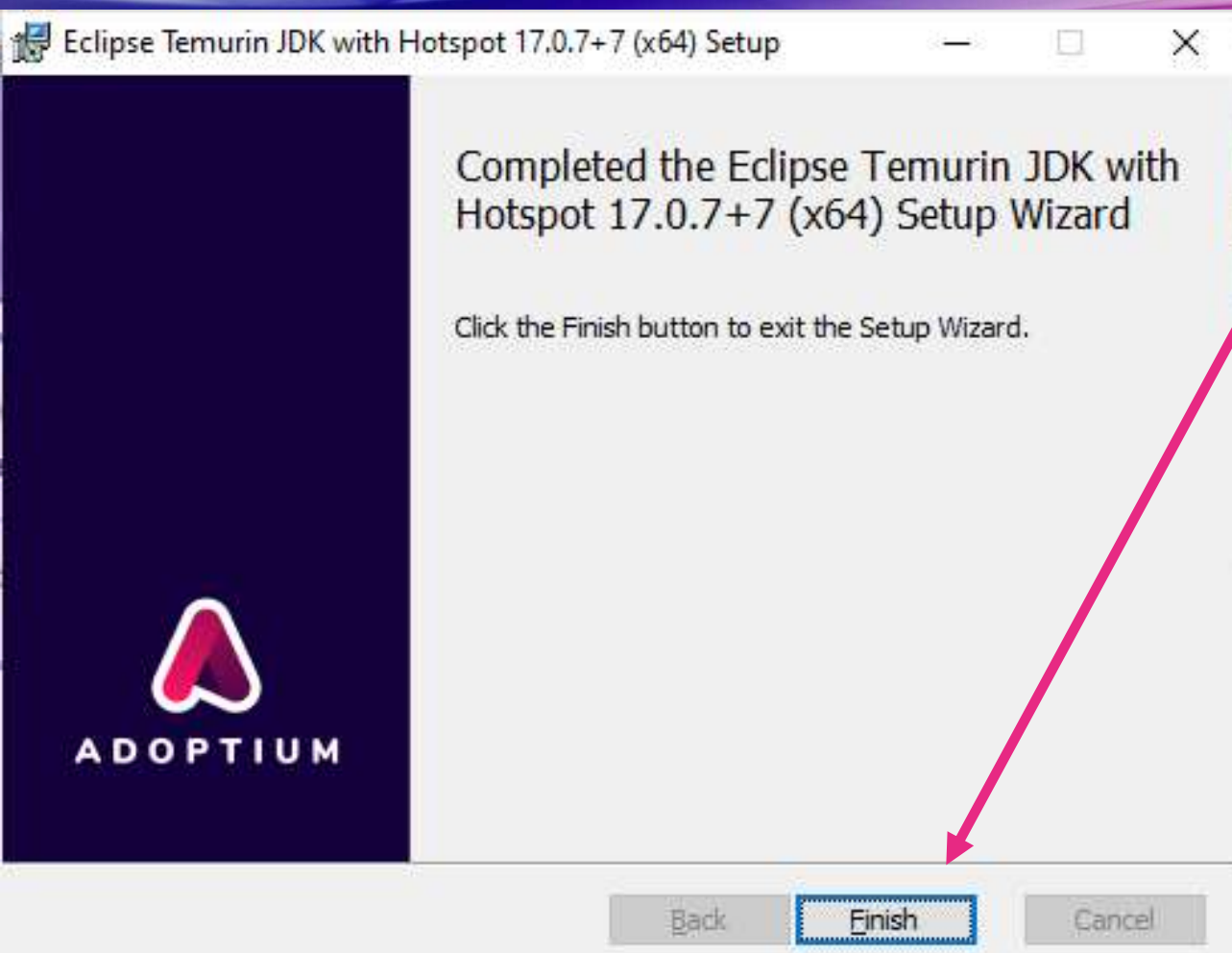
Clique na seta de  
JDK with Hotspot  
e escolha Entire  
feature will be  
install on local hard  
drive

# INSTALAÇÃO TEMURIN



Clique no botão  
Next

# INSTALAÇÃO TEMURIN



Aguarde o processo de instalação e ao final clique no botão Finish



# INSTALAÇÃO DO SPRING TOOLS SUITE



# INSTALAÇÃO SPRING TOOLS SUITE

Acesse o link abaixo e faça download da ferramenta:

<https://spring.io/tools>

Meet the Spring team this August at SpringOne.



Why Spring ▾

Learn ▾

Projects ▾

Academy ▾

Support ▾

Community ▾



## Spring Tools | 4

Spring Tools 4 is the next generation of Spring tooling for your favorite coding environment. Largely rebuilt from scratch, it provides world-class support for developing Spring-based enterprise applications, whether you prefer Eclipse, Visual Studio Code, or Theia IDE.

# INSTALAÇÃO SPRING TOOLS SUITE

## Spring Tools 4 for Eclipse

The all-new Spring Tool Suite 4. Free. Open source.

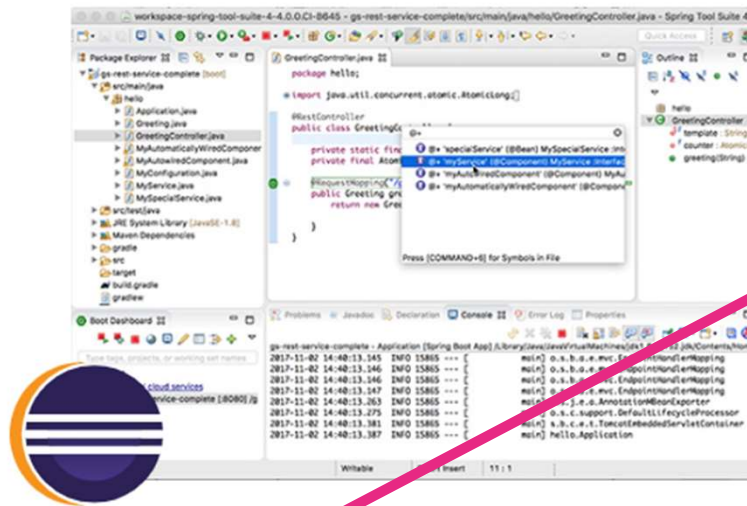
4.18.1 - LINUX X86\_64

4.18.1 - LINUX ARM\_64

4.18.1 - MACOS X86\_64

4.18.1 - MACOS ARM\_64

4.18.1 - WINDOWS X86\_64



Clique no link referente ao Windows 64 e realize o download da ferramenta


# INSTALAÇÃO SPRING TOOLS SUITE

Clique 2x sobre o arquivo que você acabou de fazer o download. Ele irá descompactar os arquivos em um diretório na própria pasta download. Quando terminar copie a pasta descompactada para o seu disco C

 sts-4.18.1.RELEASE

← → ▾ ↑  > Este Computador > Downloads

★ Acesso rápido

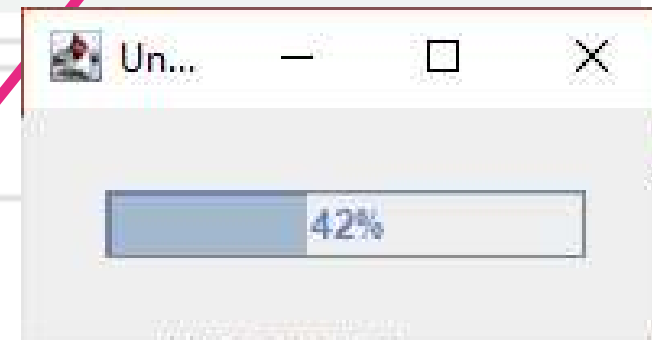
 Área de Trabalho

 Downloads

Nome

▼ Hoje (2)

 spring-tool-suite-4-4.18.1.RELEASE-e4.27.0-win32....



# INSTALAÇÃO SPRING TOOLS SUITE

- configuration
- dropins
- features
- META-INF
- p2
- plugins
- readme
- .eclipseproduct
- artifacts.xml
- license.txt
- open-source-licenses.txt
- SpringToolSuite4.exe
- SpringToolSuite4.ini
- SpringToolSuite4c.exe

Abra a pasta do STS que você copiou para o disco C e clique 2x sobre o arquivo SpringToolSuite4.exe

sts-4.18.1.RELEASE





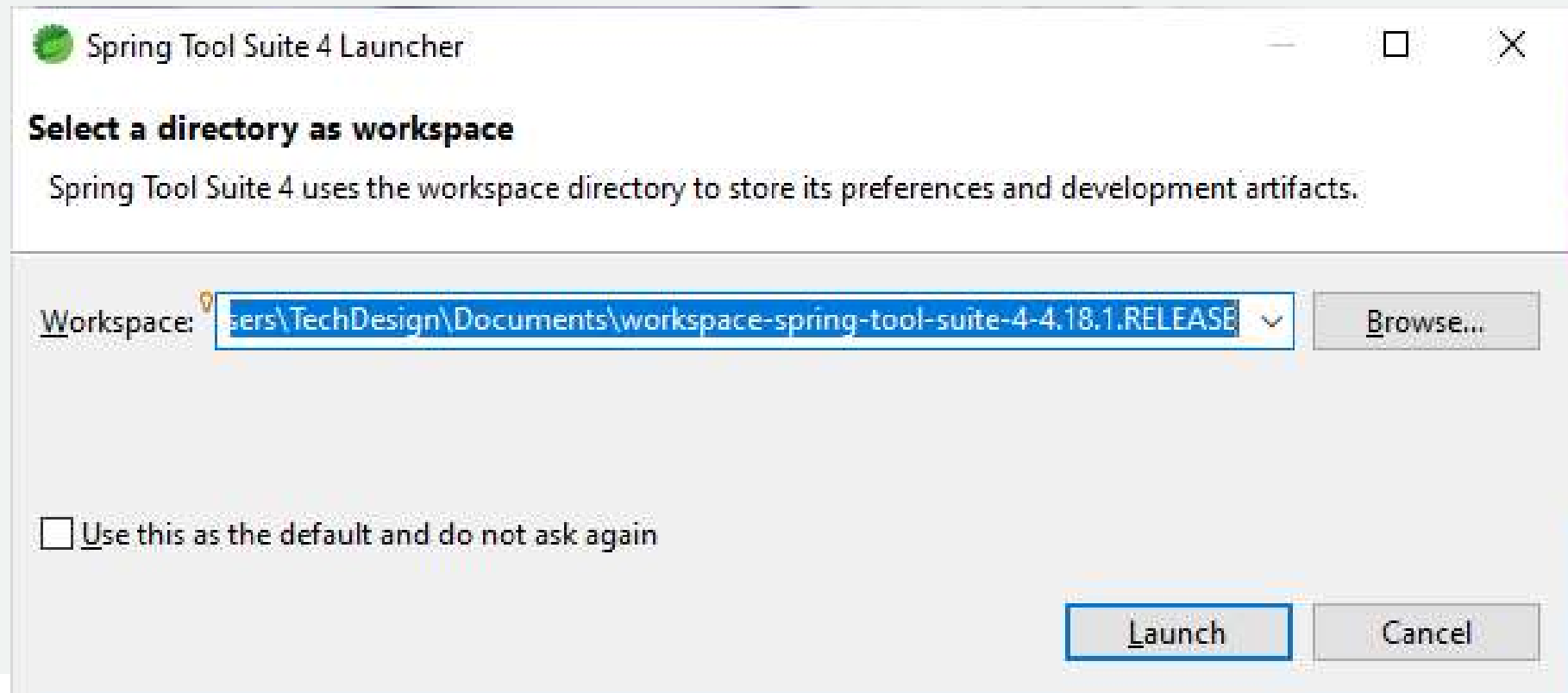
# INSTALAÇÃO SPRING TOOLS SUITE

Tela de abertura do Spring

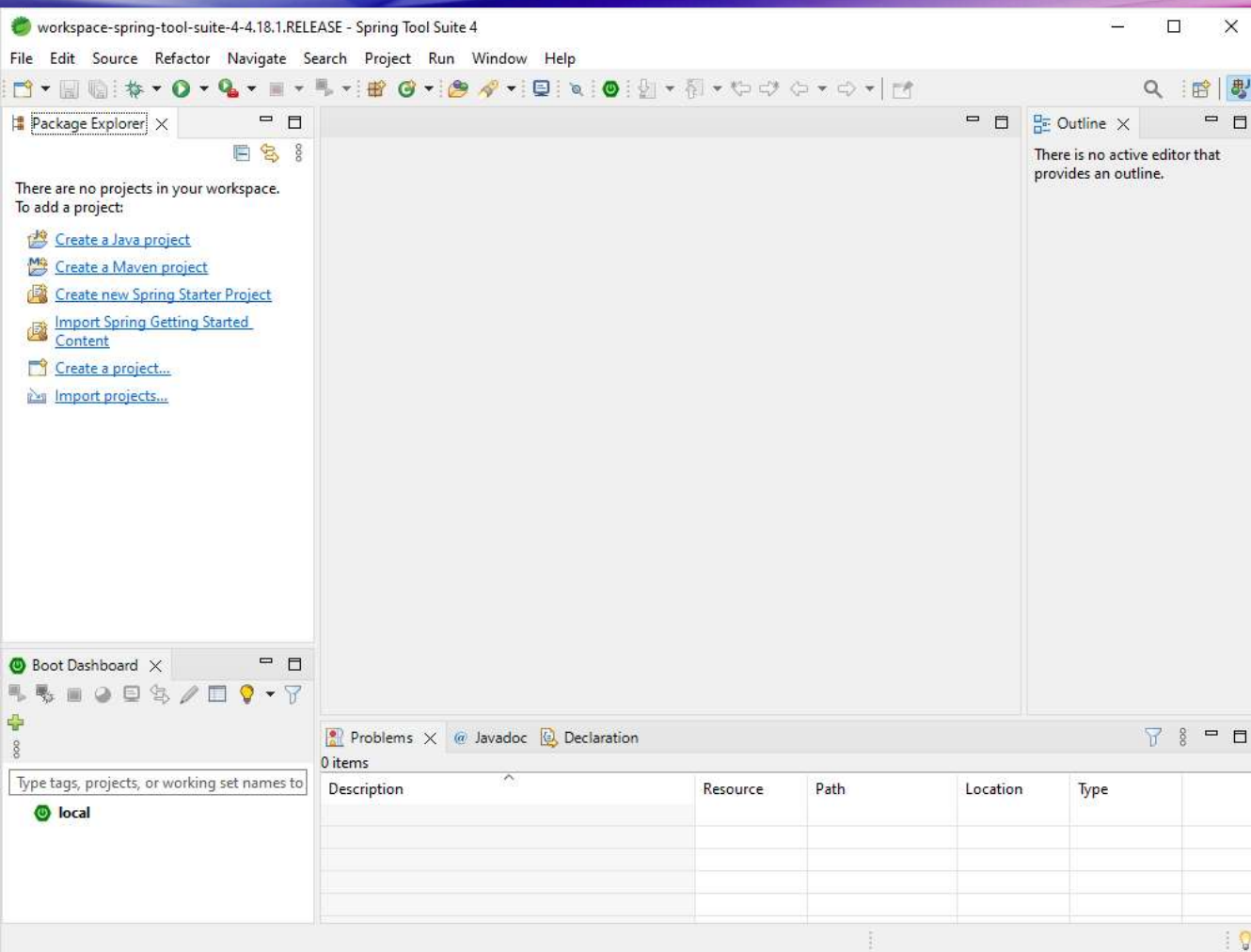


# INSTALAÇÃO SPRING TOOLS SUITE

Esta é a pasta padrão que o STS irá criar os projetos. Clique em Launch

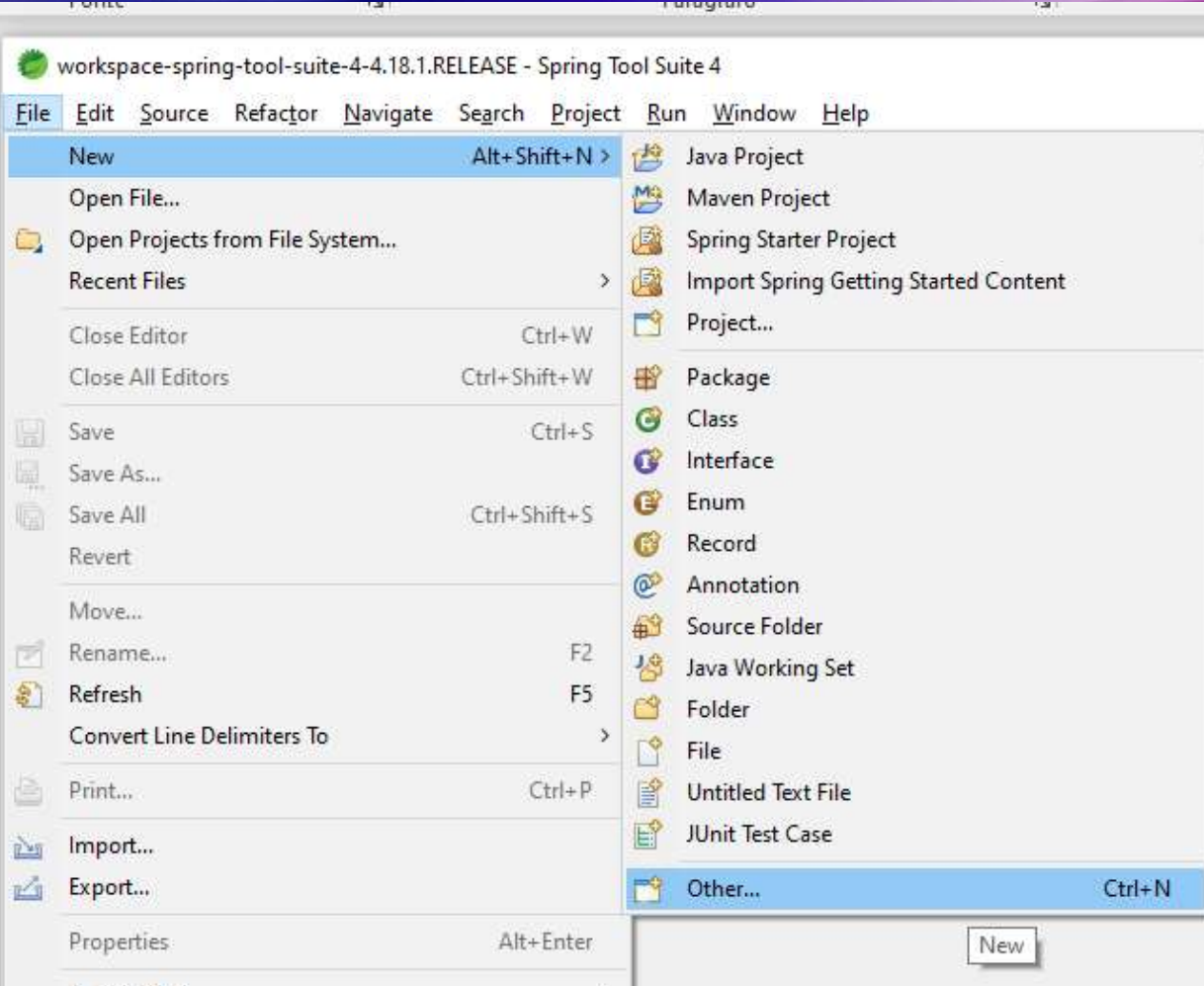


# INSTALAÇÃO SPRING TOOLS SUITE



Esta é a tela que teremos quando a ferramenta abre.

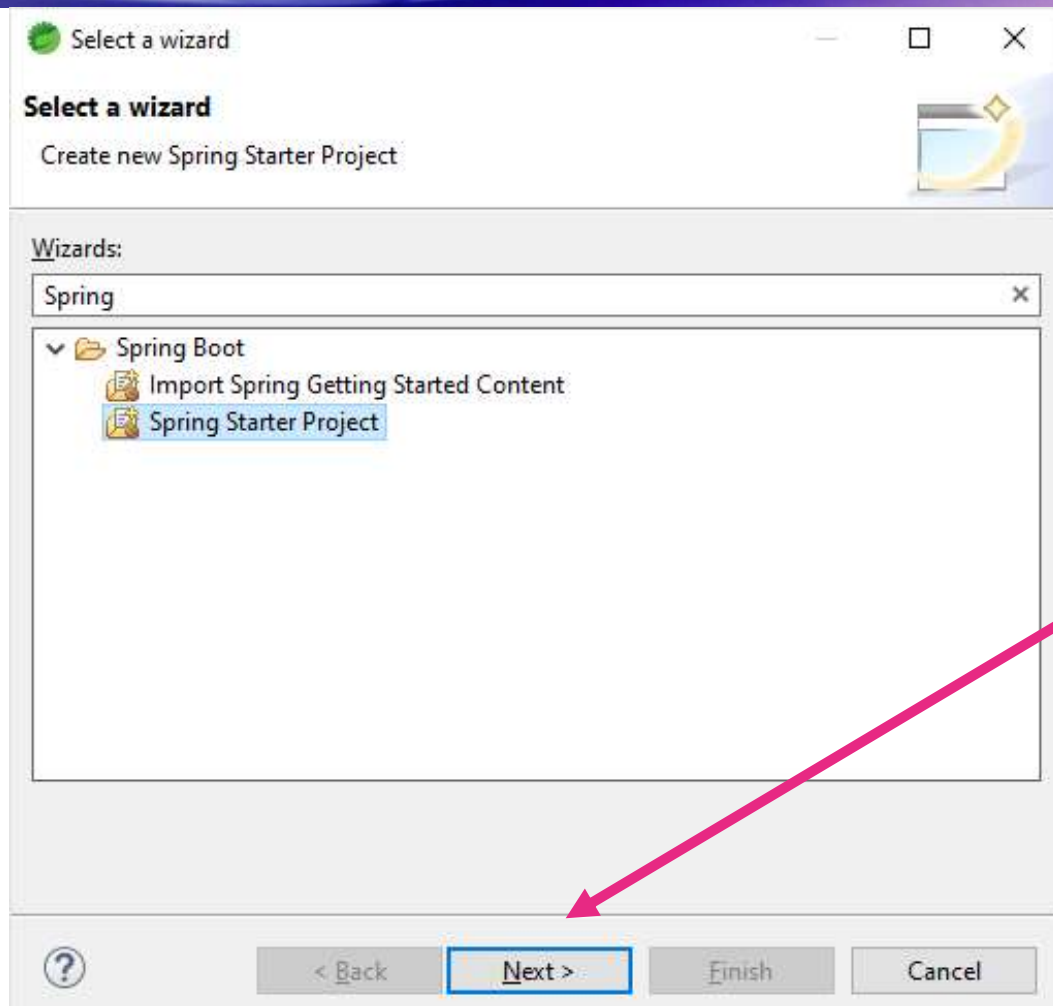
# INSTALAÇÃO SPRING TOOLS SUITE



Vamos criar um novo projeto usando o menu  
File->New->Other...

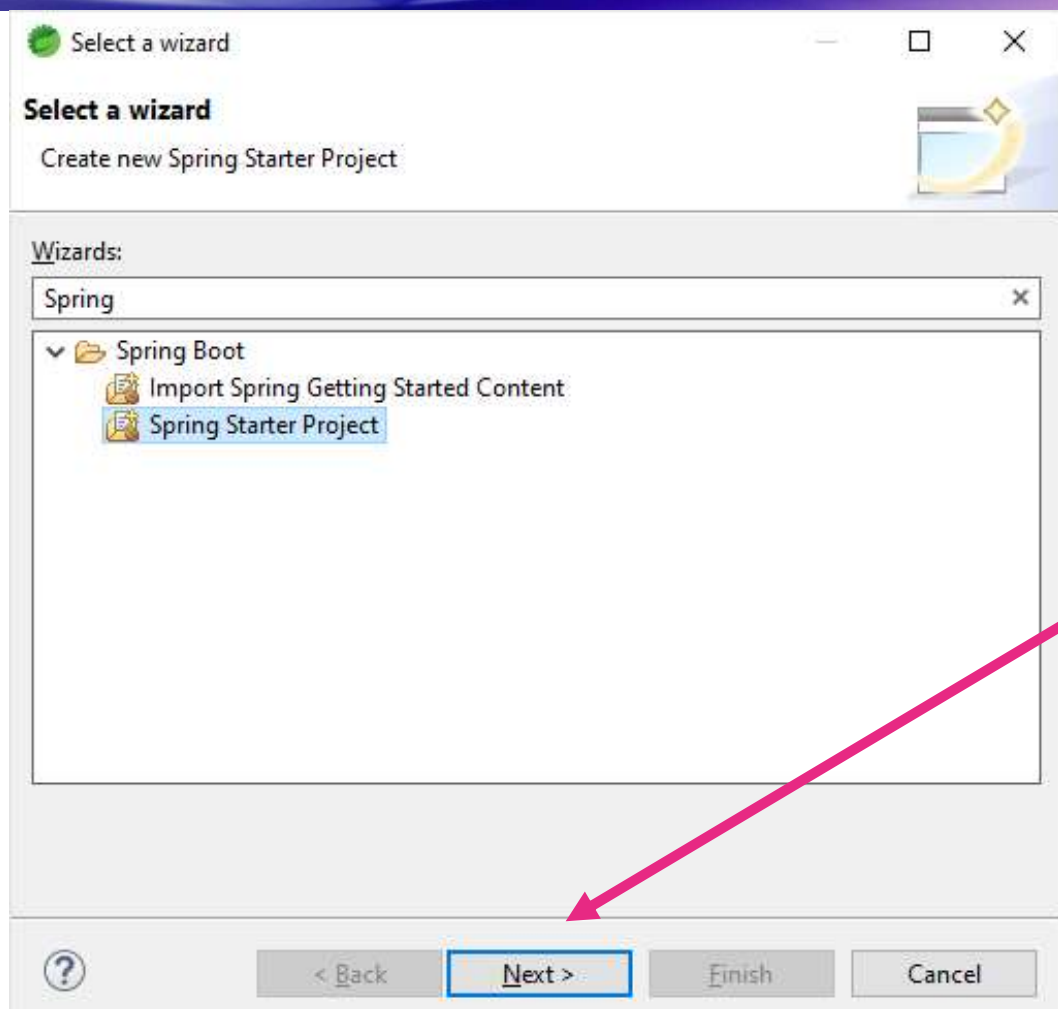


# INSTALAÇÃO SPRING TOOLS SUITE



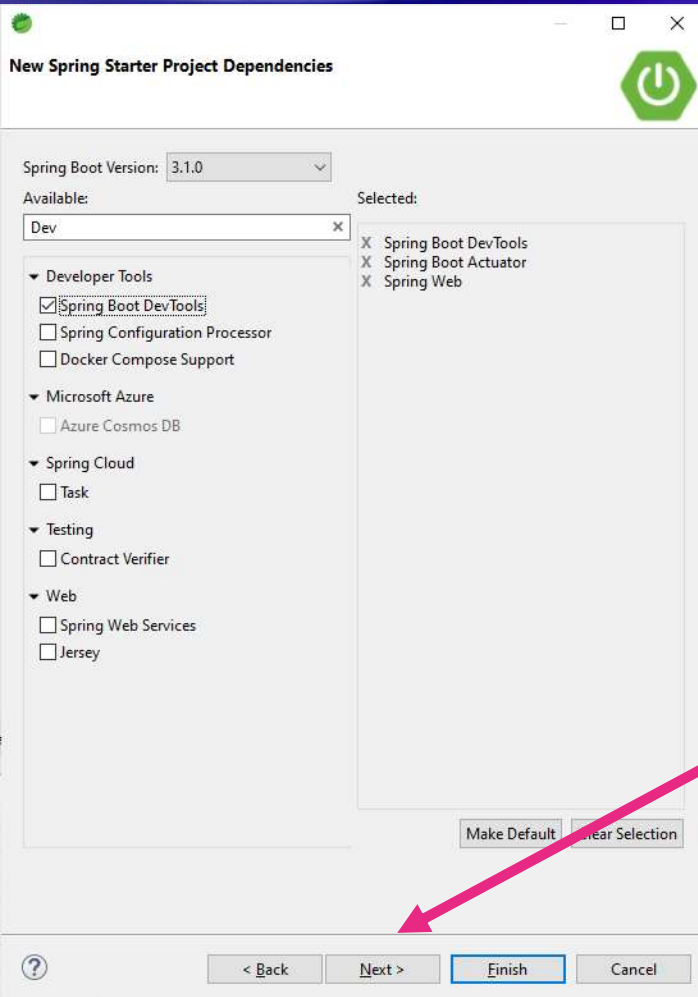
Escolha a opção Spring Starter Project e clique em Next

# INSTALAÇÃO SPRING TOOLS SUITE



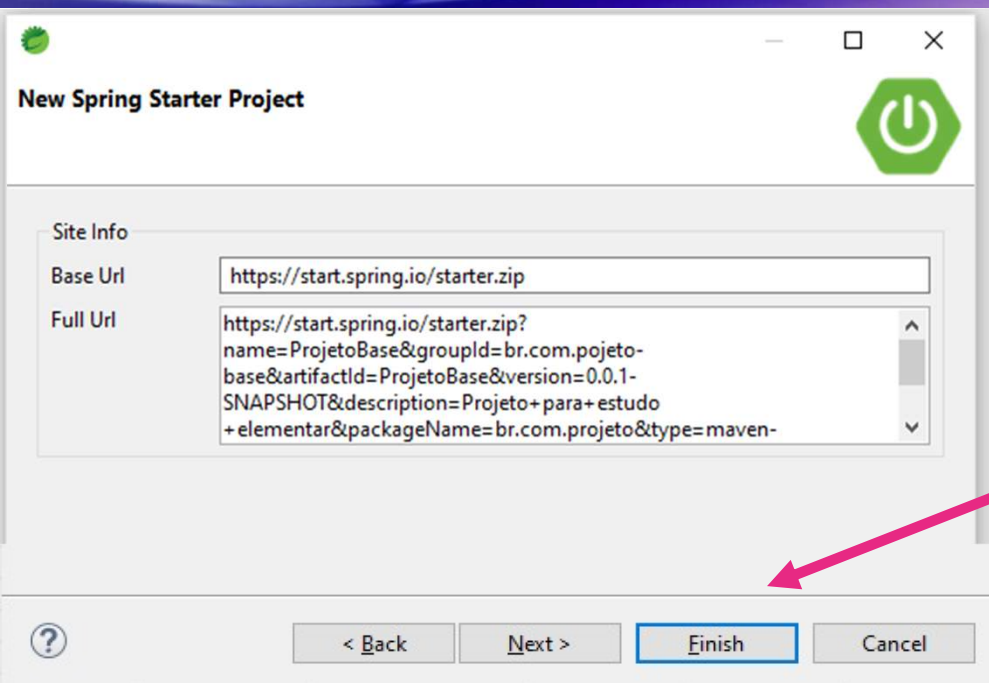
Escolha a opção Spring Starter Project e clique em Next

# INSTALAÇÃO SPRING TOOLS SUITE



Selecione as seguintes extensões e clique em  
Finish

# INSTALAÇÃO SPRING TOOLS SUITE



**New Spring Starter Project**

Site Info

Base Url:

Full Url:

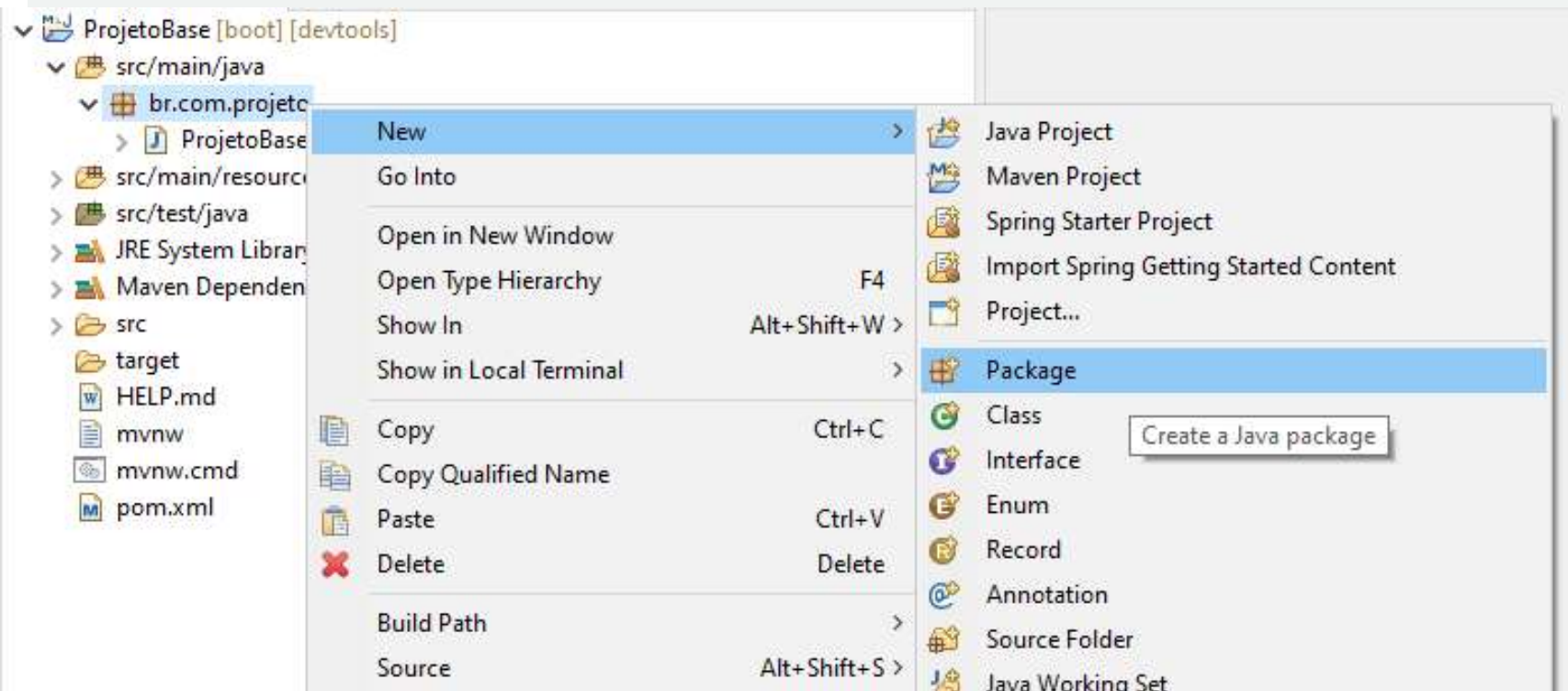
< Back   Next >   **Finish**   Cancel

Selecione as seguintes extensões e clique em  
Finish

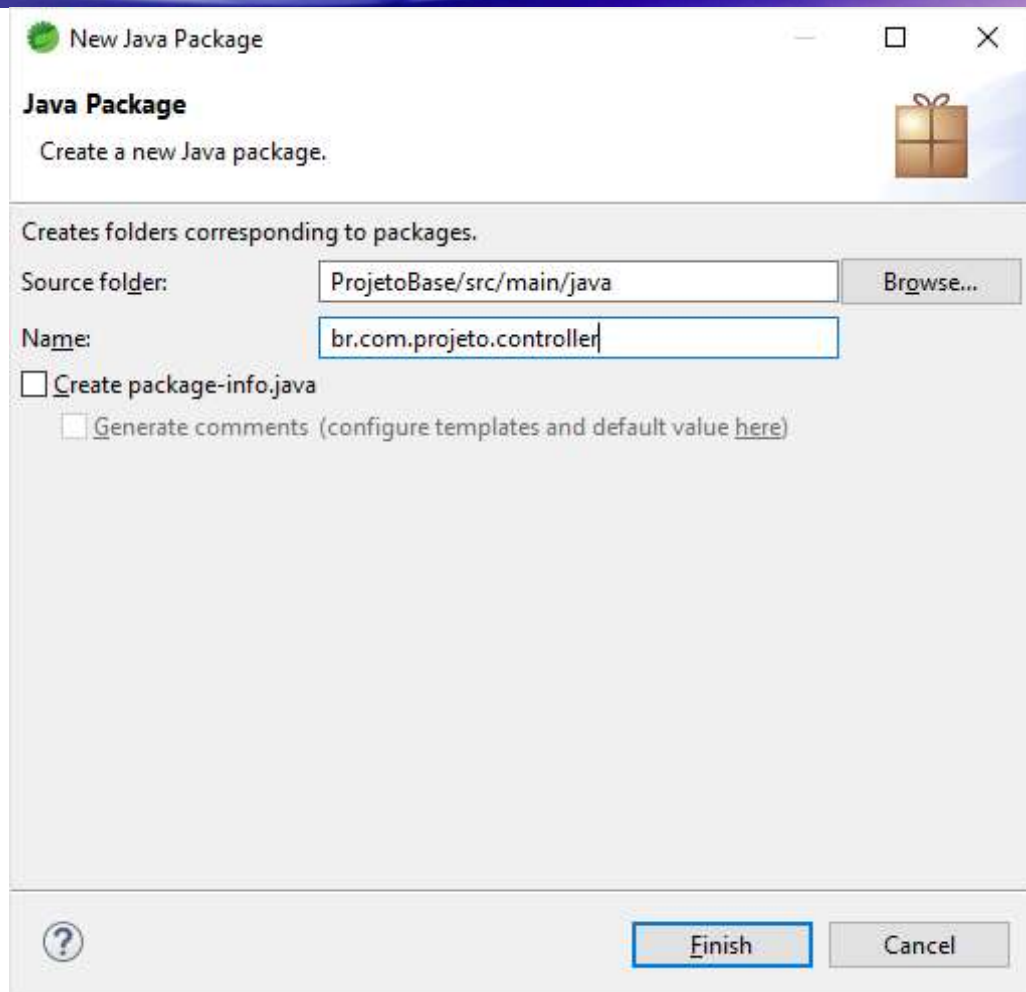


# INSTALAÇÃO SPRING TOOLS SUITE

Crie um novo package chamado  
br.com.projeto.controller



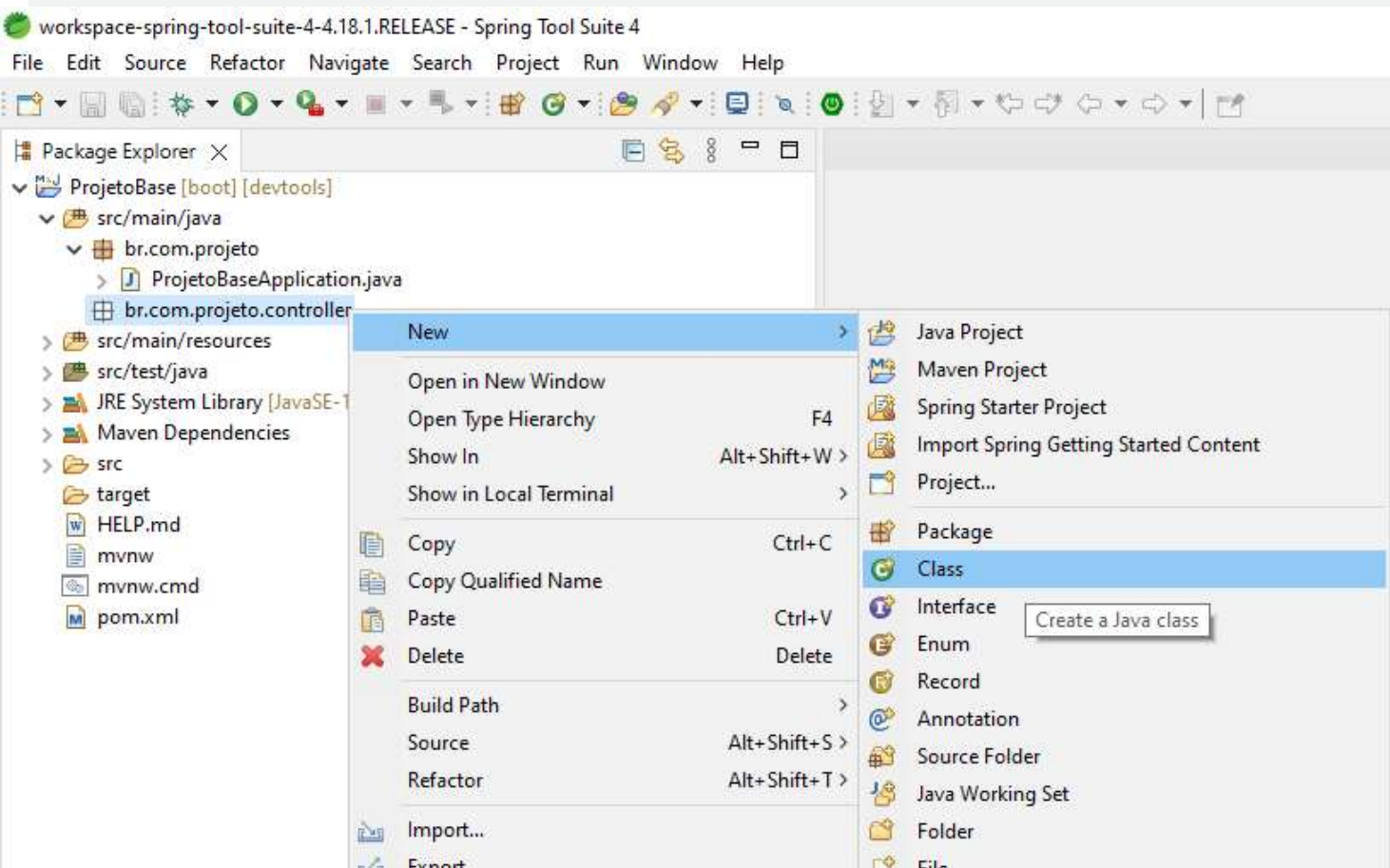
# INSTALAÇÃO SPRING TOOLS SUITE



Crie um novo package chamado  
br.com.projeto.controller

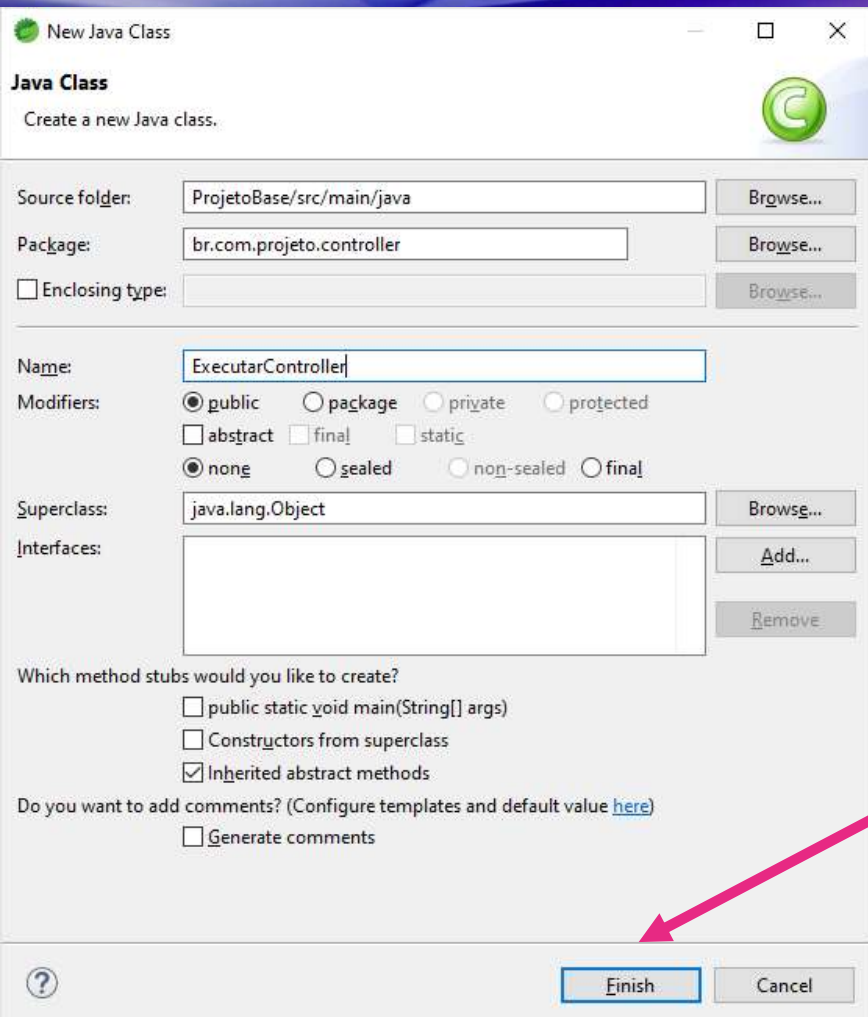
Clique em Finish

# INSTALAÇÃO SPRING TOOLS SUITE



Crie uma nova classe dentro do package controller com o nome de ExecutarController

# INSTALAÇÃO SPRING TOOLS SUITE



**New 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

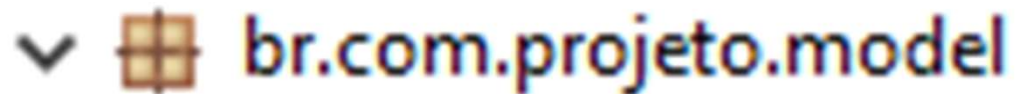
Crie uma nova classe dentro do package controller com o nome de ExecutarController


Clique no botão Finish



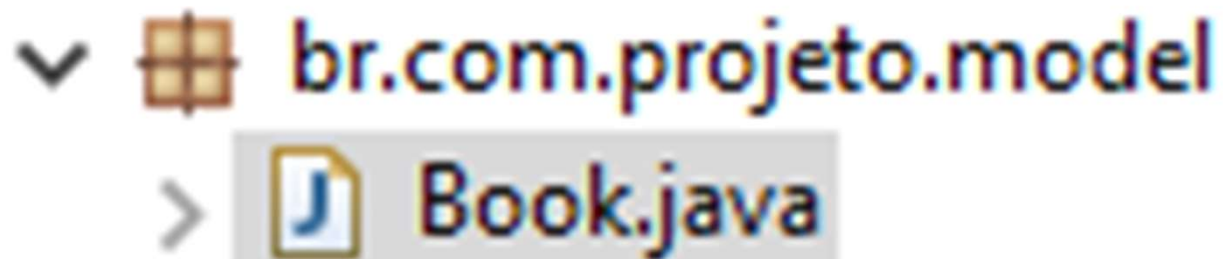
# INSTALAÇÃO SPRING TOOLS SUITE



Crie um novo package chamado model em br.com.projeto. Ele ficará assim

A screenshot of an IDE's package explorer showing a package named 'br.com.projeto.model'. The package is expanded, indicated by a downward arrow. The package icon is a brown square with a white grid pattern.

▼  br.com.projeto.model

Dentro dele você deverá criar uma nova classe chamada Book. A estrutura ficará assim.

A screenshot of an IDE's package explorer showing the package 'br.com.projeto.model' expanded. Inside the package, a new class named 'Book.java' has been created, indicated by a rightward arrow. The class icon is a blue document with a white 'J' on it.

▼  br.com.projeto.model  
    >  Book.java

# INSTALAÇÃO SPRING TOOLS SUITE

Este é o código da classe Book

```
1 package br.com.projeto.model;
2
3 public class Book {
4     private int id;
5     private String name;
6     private String author;
7     private String publisher;
8     private int quantity;
9
10    public Book() {}
11    public Book(int id, String name, String author, String publisher, int quantity) {
12        this.id = id;
13        this.name = name;
14        this.author = author;
15        this.publisher = publisher;
16        this.quantity = quantity;
17    }
18    public int getId() {
19        return id;
20    }
21    public void setId(int id) {
22        this.id = id;
23    }
```

```
24    public String getName() {
25        return name;
26    }
27    public void setName(String name) {
28        this.name = name;
29    }
30    public String getAuthor() {
31        return author;
32    }
33    public void setAuthor(String author) {
34        this.author = author;
35    }
36    public String getPublisher() {
37        return publisher;
38    }
39    public void setPublisher(String publisher) {
40        this.publisher = publisher;
41    }
42    public int getQuantity() {
43        return quantity;
44    }
45    public void setQuantity(int quantity) {
46        this.quantity = quantity;
47    }
48 }
```

# INSTALAÇÃO SPRING TOOLS SUITE

Agora acesse a classe ExecutarPrimeiro e escreva o código a seguir. O restante do arquivo está no próximo slide

```
1 package br.com.projeto.controller;
2
3 import java.util.ArrayList;
4 import java.util.Arrays;
5 import java.util.List;
6
7 import org.springframework.web.bind.annotation.GetMapping;
8 import org.springframework.web.bind.annotation.RestController;
9
10 import br.com.projeto.model.Book;
11
12 @RestController
13 public class ExecutarController {
14
15     @GetMapping("/primeiro")
16     public List<String> primeiro(){
17         //array of strings
18         String[] strArray = {"Delhi", "Mumbai", "Kolkata", "Chennai"};
19         //initialize an immutable list from array using asList method
20         List<String> mylist = Arrays.asList(strArray);
21         //print the list
22         return mylist;
23     }
24 }
```

# INSTALAÇÃO SPRING TOOLS SUITE

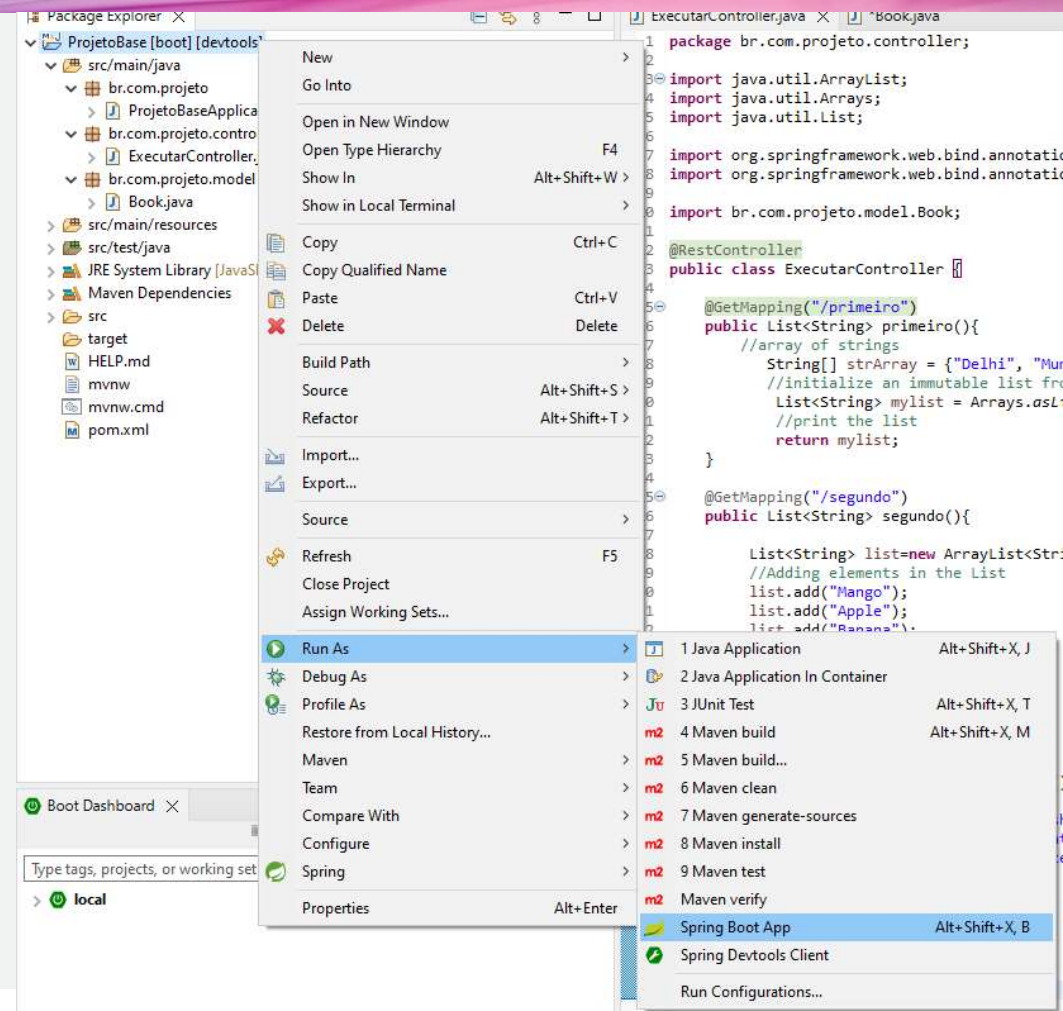
Agora acesse a classe ExecutarPrimeiro e escreva o código a seguir

```
24
25 @GetMapping("/segundo")
26 public List<String> segundo(){
27
28     List<String> list=new ArrayList<String>();
29     //Adding elements in the List
30     list.add("Mango");
31     list.add("Apple");
32     list.add("Banana");
33     list.add("Grapes");
34     return list;
35 }
36
37 @GetMapping("/terceiro")
38 public List<Book> terceiro(){
39     //Creating list of Books
40     List<Book> list=new ArrayList<Book>();
41     //Creating Books
42     Book b1=new Book(101,"Let us C","Yashwant Kanetkar","BPB",8);
43     Book b2=new Book(102,"Data Communications and Networking","Forouzan","Mc Graw Hill",4);
44     Book b3=new Book(103,"Operating System","Galvin","Wiley",6);
45     //Adding Books to list
46     list.add(b1);
47     list.add(b2);
48     list.add(b3);
49     return list;
50 }
```



# INSTALAÇÃO SPRING TOOLS SUITE

Para testar, basta clicar com o botão direito mouse sobre o projeto e escolher a opção Run as -> Spring Boot App



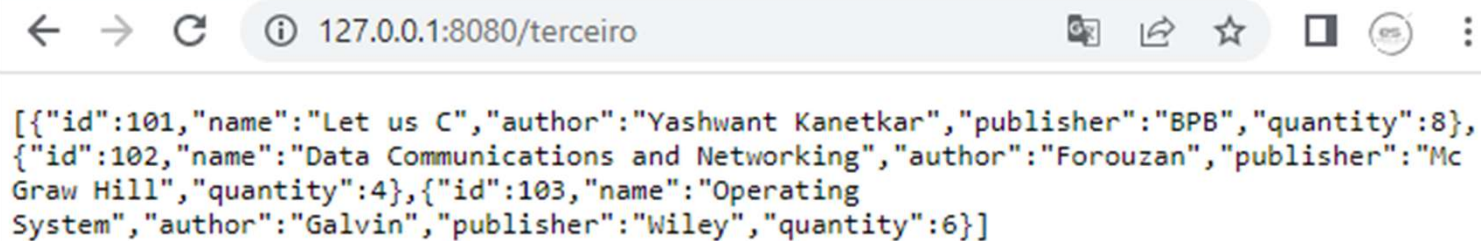
# INSTALAÇÃO SPRING TOOLS SUITE

Acesse o navegador e faça os testes com:

<http://127.0.0.1:8080/primeiro>

<http://127.0.0.1:8080/segundo>

<http://127.0.0.1:8080/terceiro>



# ENTREGA DO PROJETO

Publique o projeto no GitHub e envie o link do repositório para

[edilsonbackend@gmail.com](mailto:edilsonbackend@gmail.com)

A atividade deve ser entregue até o dia

10/06/2023