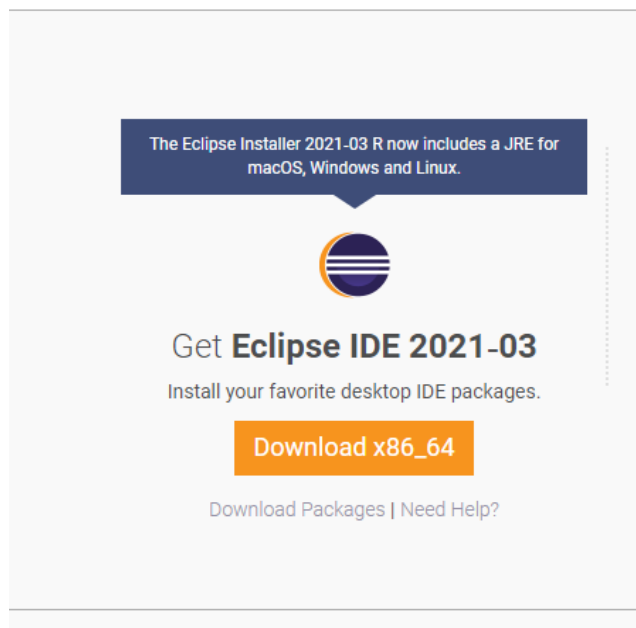


# Manual para instalação e execução do programa (Windows)

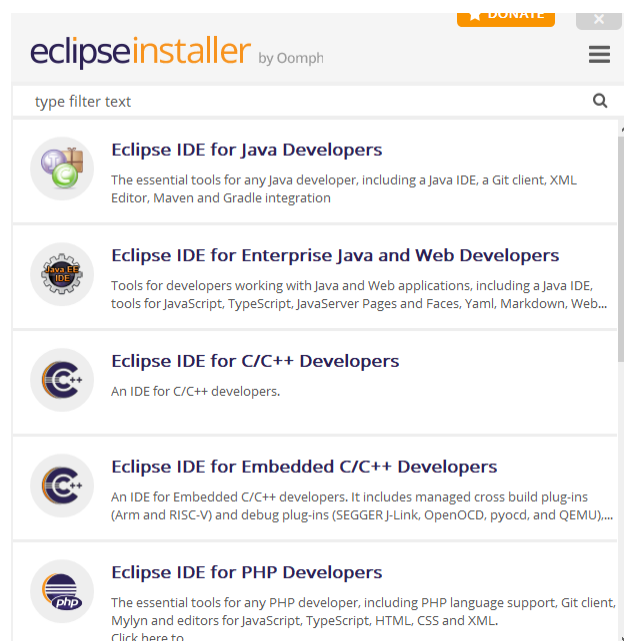
## 1. Instalação do Eclipse IDE

Acesse o link: <https://www.eclipse.org/downloads/>

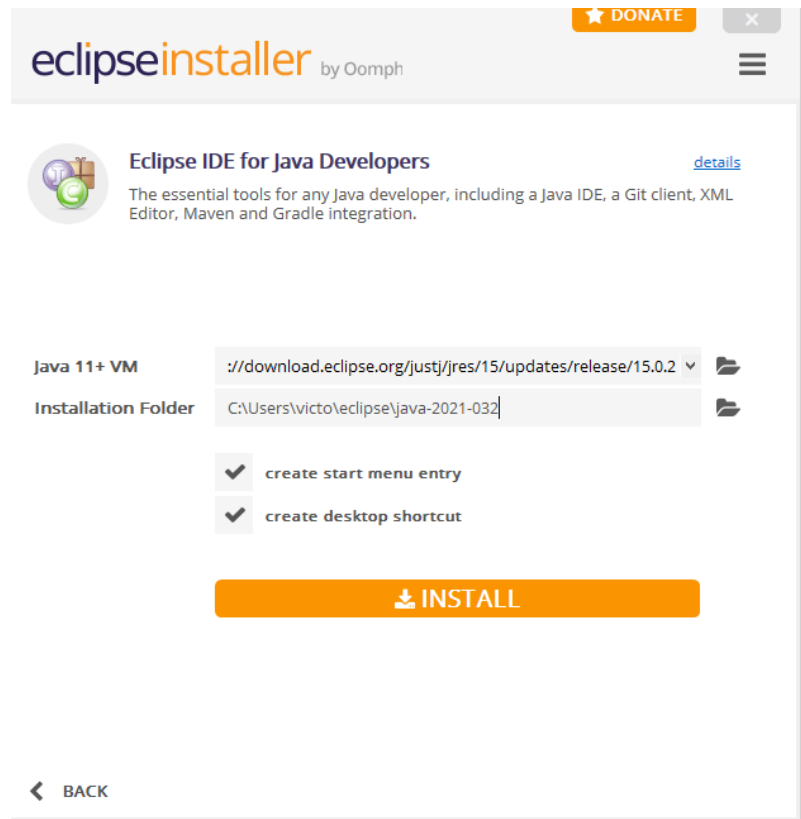
E clique em Download:



Ao executar o instalador, escolha a opção Eclipse IDE for Java Developers:

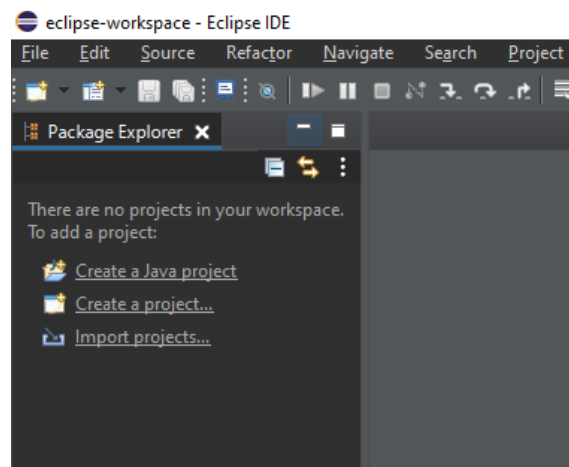


Clique em “Install”



## 2. Executar o Programa

Ao executar o programa Eclipse pela primeira vez, clique em “create a Java Project”



Nomeie o projeto para escolher a versão Java. Para a execução do programa foi utilizada a versão 1.8. Após isso, clique em “finish”.

The screenshot shows the 'New Java Project' dialog box in the Eclipse IDE. The dialog has a title bar 'New Java Project' with standard window controls. The main content area is titled 'Create a Java Project' with the subtitle 'Create a Java project in the workspace or in an external location.' and a folder icon. The 'Project name' field contains 'NRainhas'. The 'Use default location' checkbox is checked, and the 'Location' field shows 'C:\Users\victo\workspace\NRainhas' with a 'Browse...' button. The 'JRE' section has three radio buttons: 'Use an execution environment JRE:' (selected) with a dropdown showing 'JavaSE-1.8', 'Use a project specific JRE:' with a dropdown showing 'jre', and 'Use default JRE 'jre' and workspace compiler preferences'. A 'Configure JREs...' link is present. The 'Project layout' section has two radio buttons: 'Use project folder as root for sources and class files' (selected) and 'Create separate folders for sources and class files', with a 'Configure default...' link. The 'Working sets' section has a checkbox 'Add project to working sets' and a 'New...' button. Below it, the 'Working sets:' dropdown is empty, and there is a 'Select...' button. An information message at the bottom states: 'The default compiler compliance level for the current workspace is 15. The new project will use a project specific compiler compliance level of 1.8.' The bottom of the dialog features a question mark icon and four buttons: '< Back', 'Next >', 'Finish' (highlighted with a blue border), and 'Cancel'.

New Java Project

Create a Java Project

Create a Java project in the workspace or in an external location.

Project name: NRainhas

☒ Use default location

Location: C:\Users\victo\workspace\NRainhas [Browse...](#)

JRE

☒ Use an execution environment JRE: JavaSE-1.8

☐ Use a project specific JRE: jre

☐ Use default JRE 'jre' and workspace compiler preferences [Configure JREs...](#)

Project layout

☒ Use project folder as root for sources and class files

☐ Create separate folders for sources and class files [Configure default...](#)

Working sets

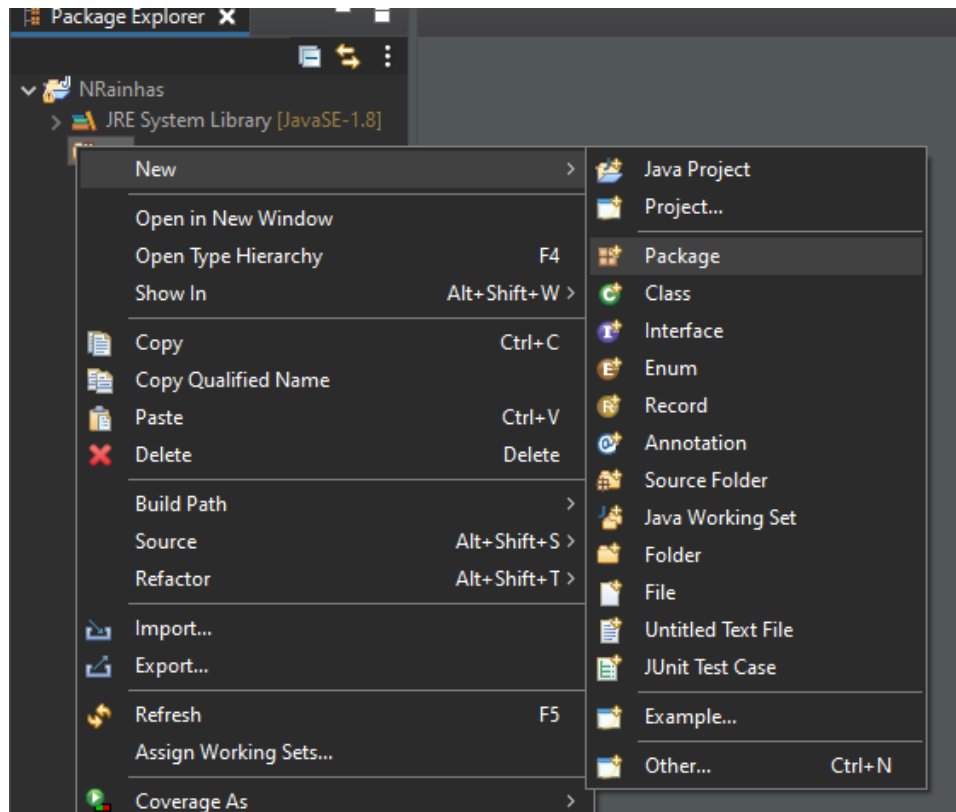
☐ Add project to working sets [New...](#)

Working sets: [Select...](#)

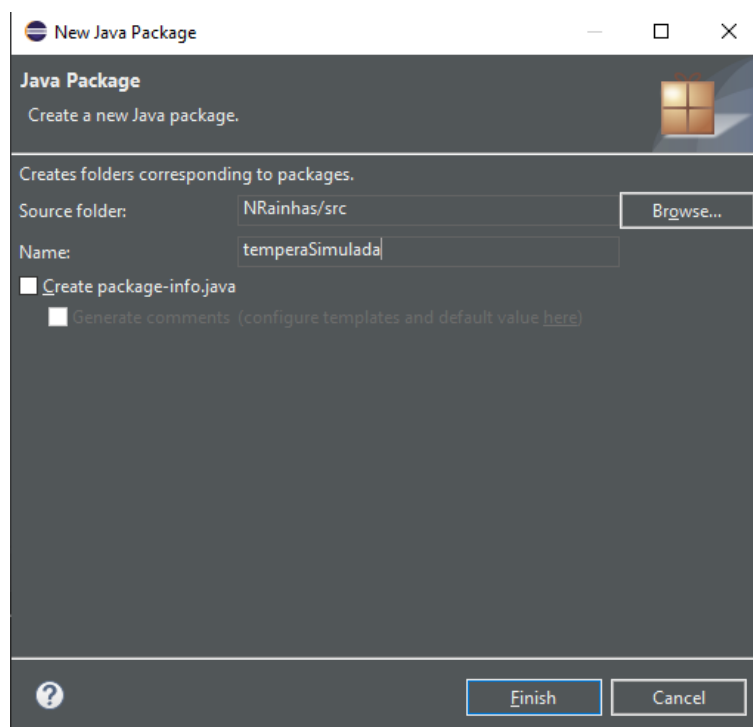
**i** The default compiler compliance level for the current workspace is 15. The new project will use a project specific compiler compliance level of 1.8.

? < Back Next > Finish Cancel

Ao abrir o novo projeto criado, clique com o botão direito do mouse na pasta “src” e selecione New > Package

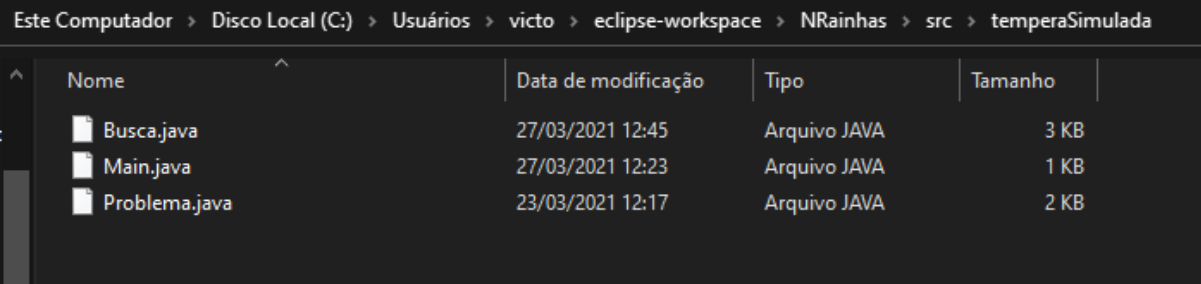


Nomeie-o como “temperaSimulada” e clique em “Finish”



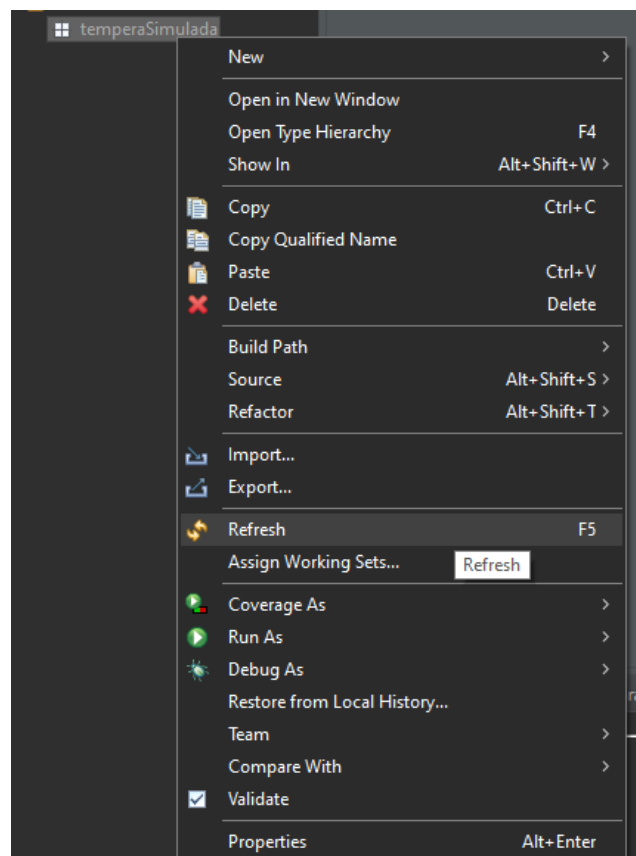
Após fazer o download dos arquivos, copie-os para dentro do pacote, no seguinte diretório:

C:\Users\seu-usuario\eclipse-workspace\nome-do-projeto\src\temperaSimulada

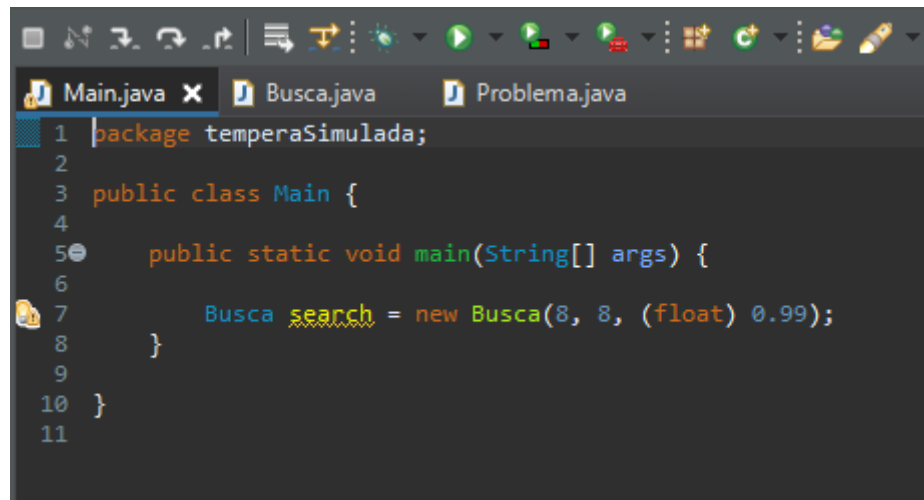


Este Computador > Disco Local (C:) > Usuários > victo > eclipse-workspace > NRainhas > src > temperaSimulada				
Nome	Data de modificação	Tipo	Tamanho	
Busca.java	27/03/2021 12:45	Arquivo JAVA	3 KB	
Main.java	27/03/2021 12:23	Arquivo JAVA	1 KB	
Problema.java	23/03/2021 12:17	Arquivo JAVA	2 KB	

Atualize o eclipse clicando com o botão direito sobre o pacote e clique em “refresh”



Os arquivos deverão ser exibidos após isso. Exiba cada uma das classes e execute-as, tendo a classe “Main” como principal



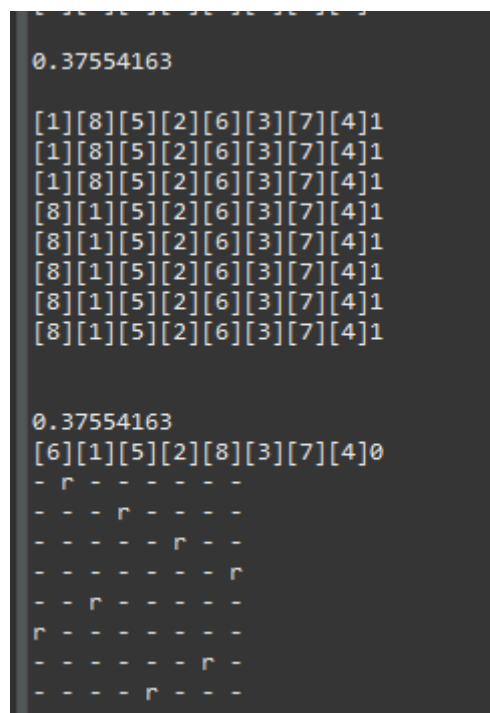
```
1 package temperaSimulada;
2
3 public class Main {
4
5     public static void main(String[] args) {
6
7         Busca search = new Busca(8, 8, (float) 0.99);
8     }
9
10 }
11
```

Na linha 7 podem ser definidos os parâmetros a ser executados no programa:

Busca search = new Busca ( x, y , (float) z ), em que:

- x = Quantidade de rainhas / dimensões do tabuleiro
- y = Quantidade máxima de interações para cada valor de temperatura
- z = Taxa de decaimento de temperatura

Após executar o programa, o console exibirá os resultados da busca:



```
0.37554163
[1][8][5][2][6][3][7][4]1
[1][8][5][2][6][3][7][4]1
[1][8][5][2][6][3][7][4]1
[8][1][5][2][6][3][7][4]1
[8][1][5][2][6][3][7][4]1
[8][1][5][2][6][3][7][4]1
[8][1][5][2][6][3][7][4]1
[8][1][5][2][6][3][7][4]1
[8][1][5][2][6][3][7][4]1
[8][1][5][2][6][3][7][4]1

0.37554163
[6][1][5][2][8][3][7][4]0
- r - - - - -
- - - r - - -
- - - - r - -
- - - - - r
- - r - - - -
r - - - - -
- - - - - r -
- - - - r - -
```

