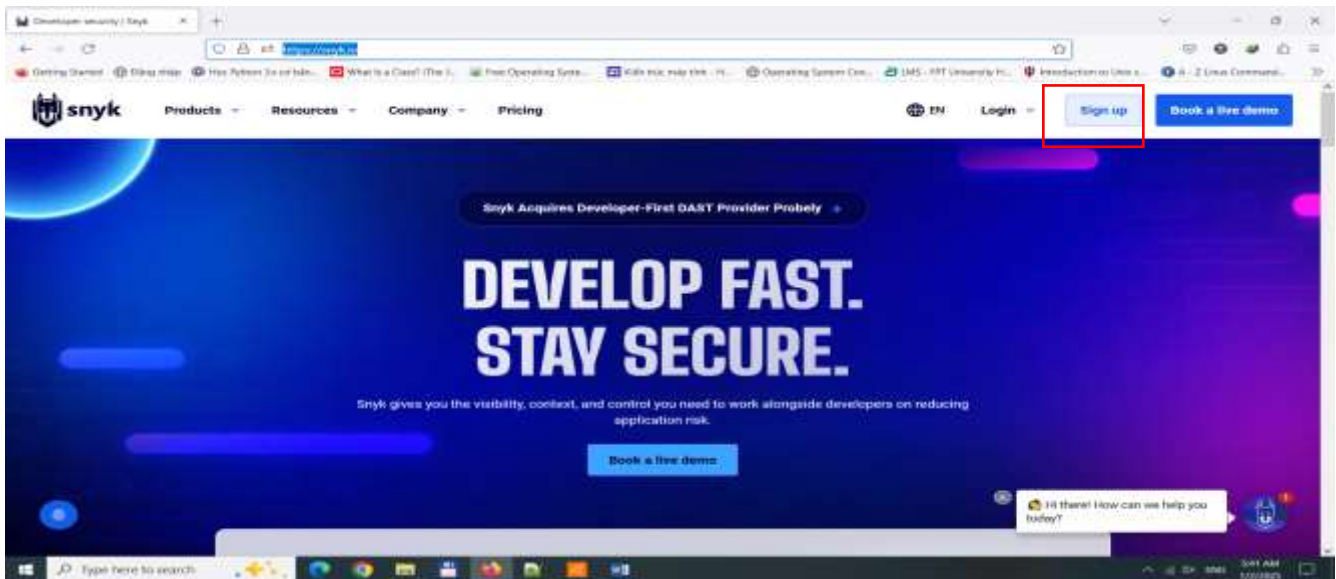


# The Snyk quick user guide (Java)

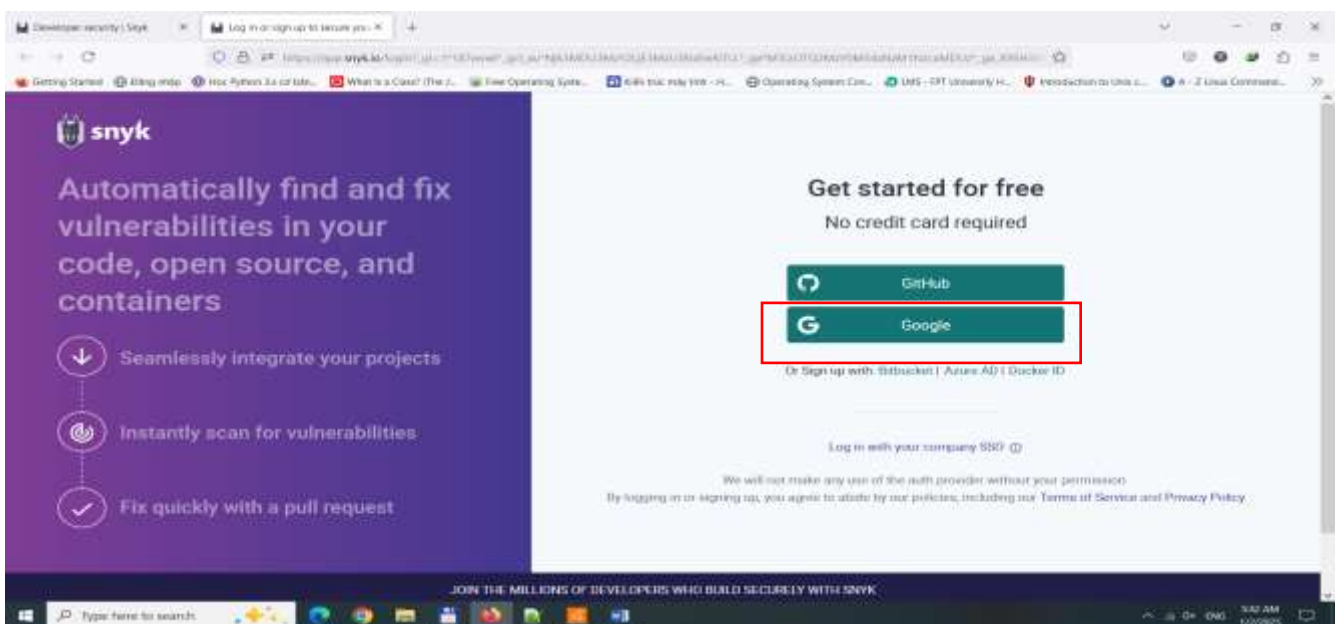
Snyk is a developer security platform that enables application and cloud developers to secure their whole application — finding and fixing vulnerabilities from their first lines of code to their running cloud.

## I. Sign up

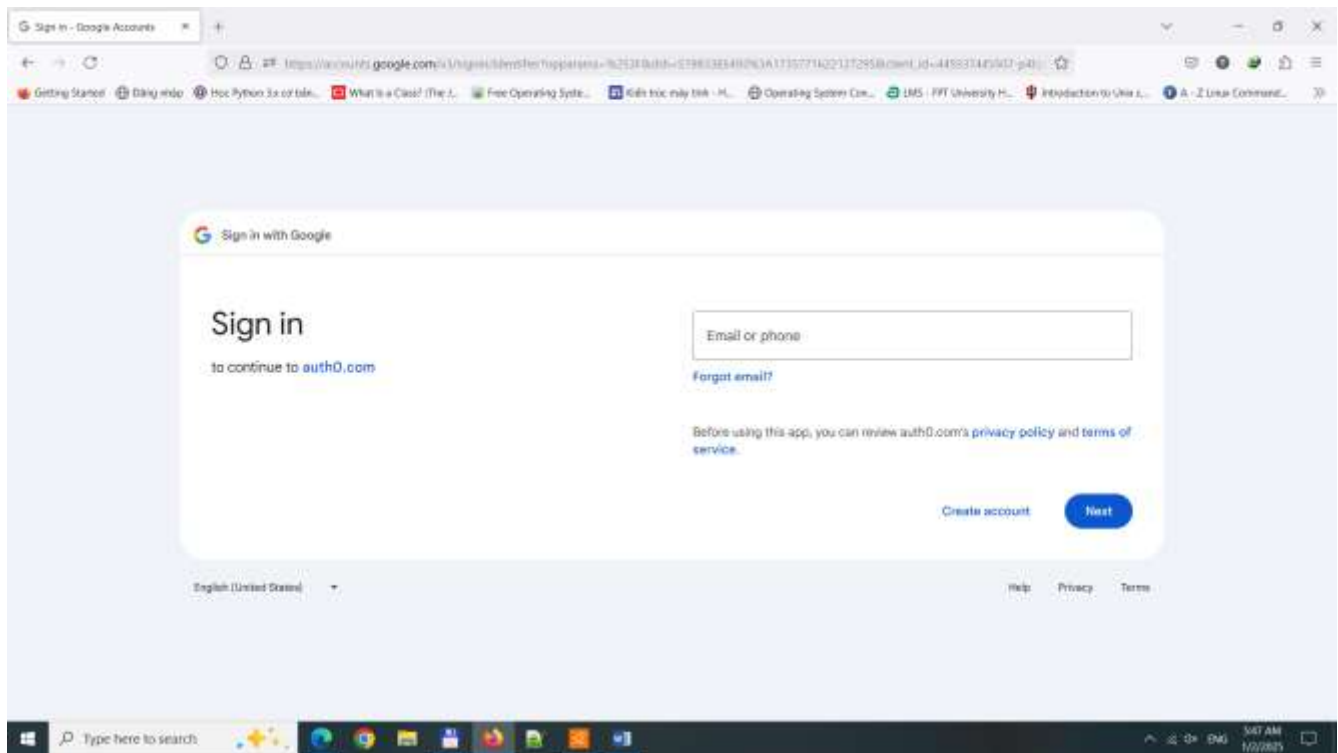
1.1. Go to the Snyk website: <https://snyk.io/> → Sign up



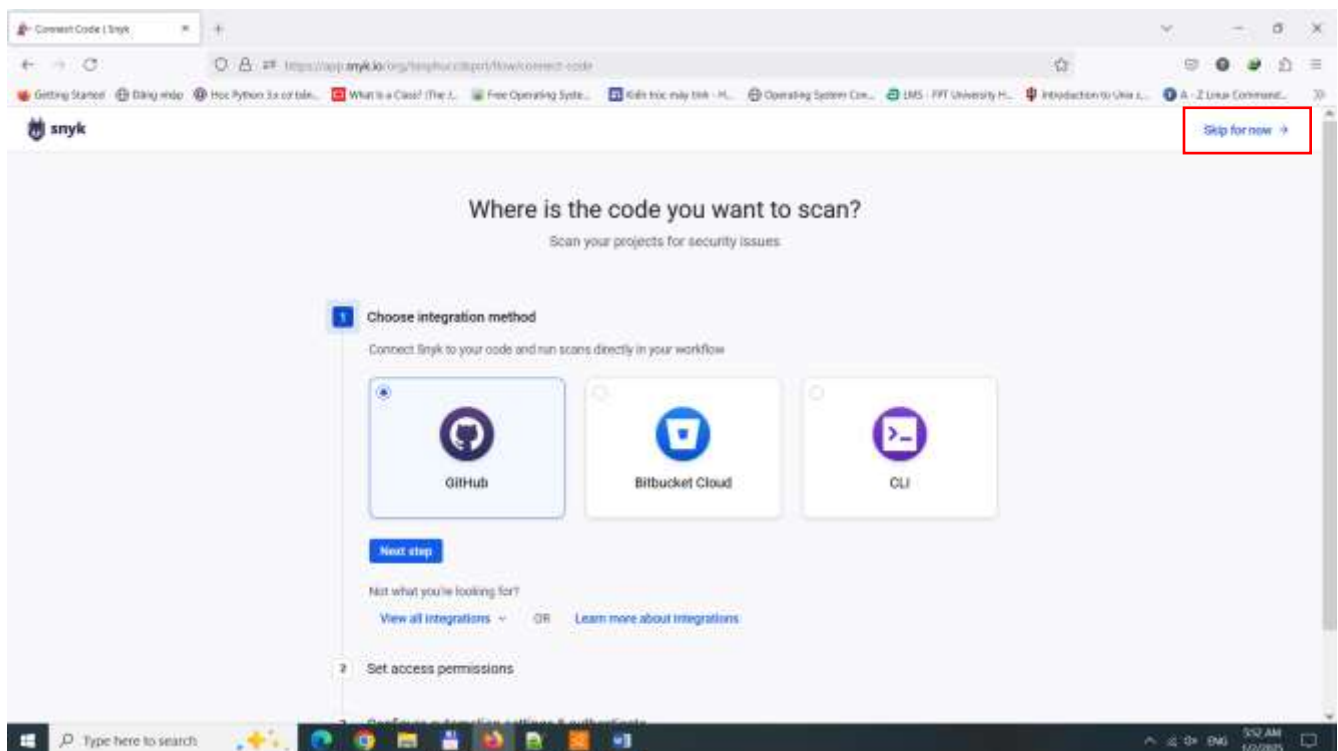
1.2. Select sign up for an account. For example, select to sign up with a Google account.



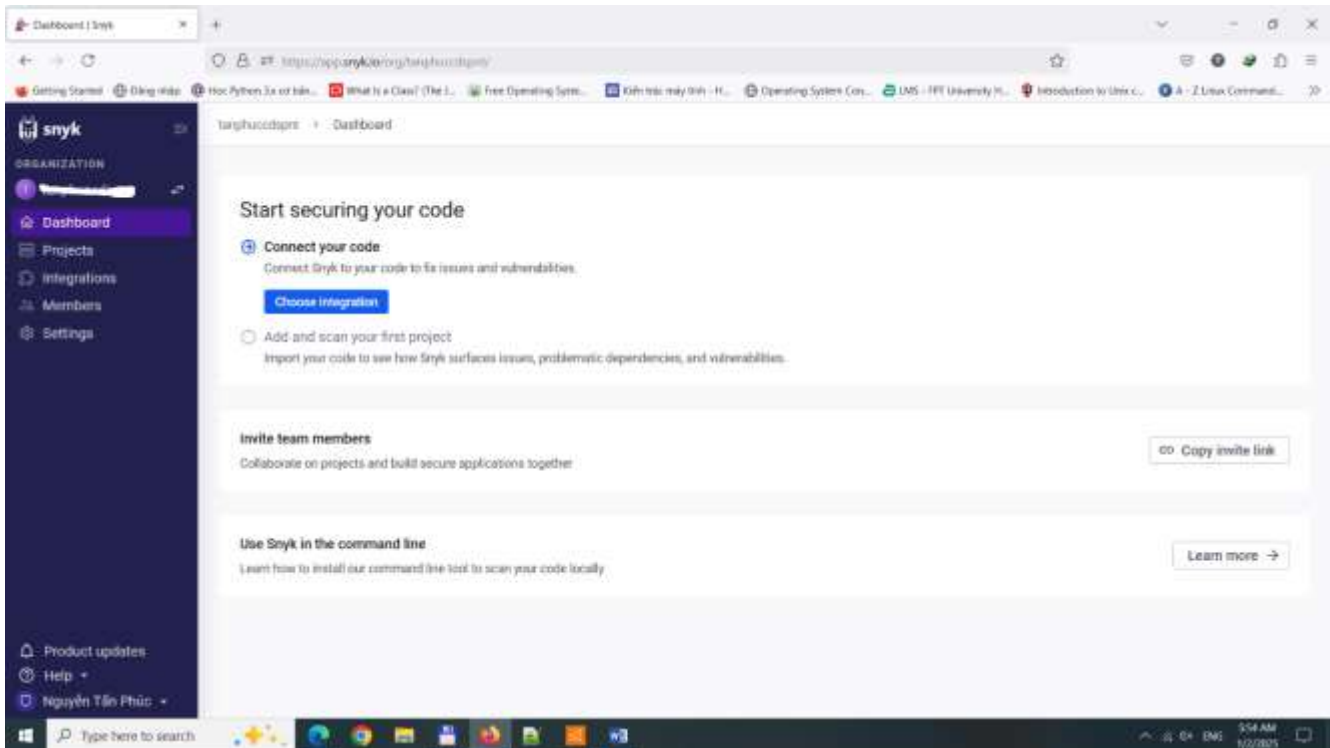
### 1.3. Sign in the Google account. Choose **Continue** to sign up



### 1.4. After Sign in the Google account. Choose **Skip for now**

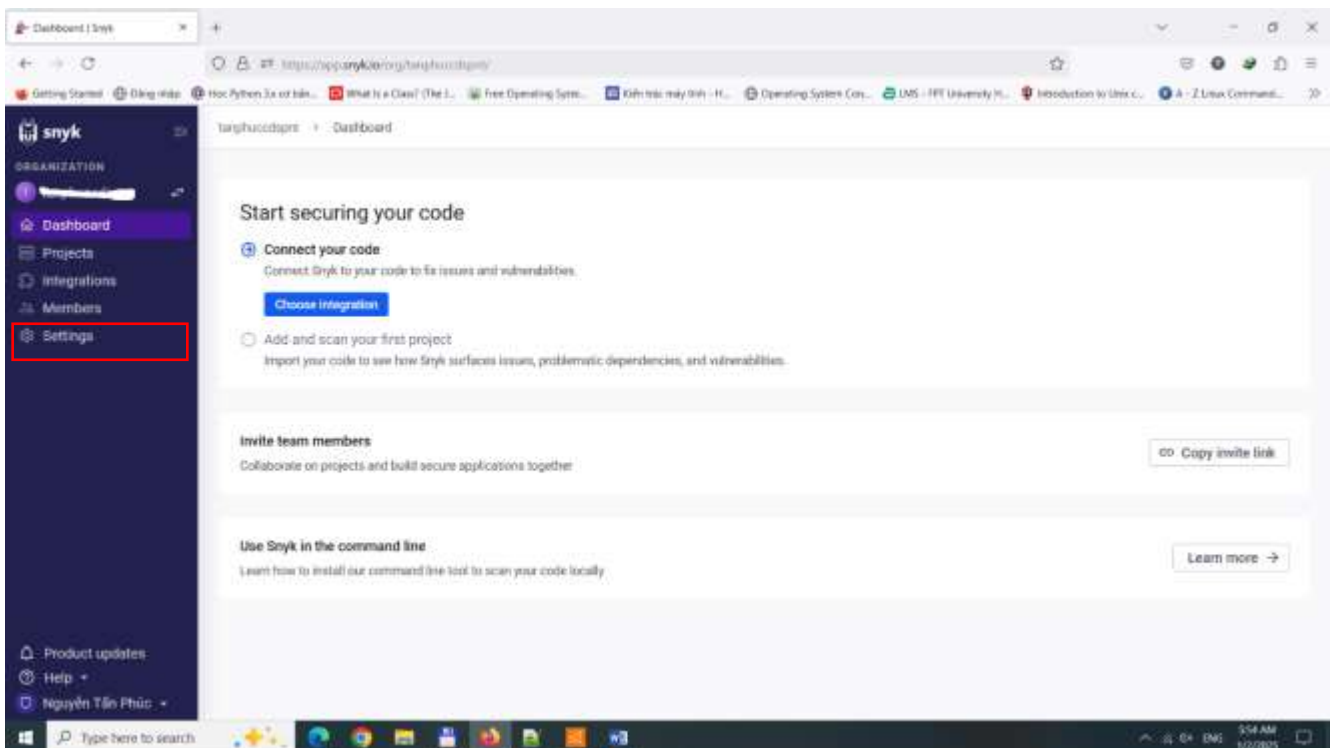


## 1.5. Dashboard of your account on Snyk

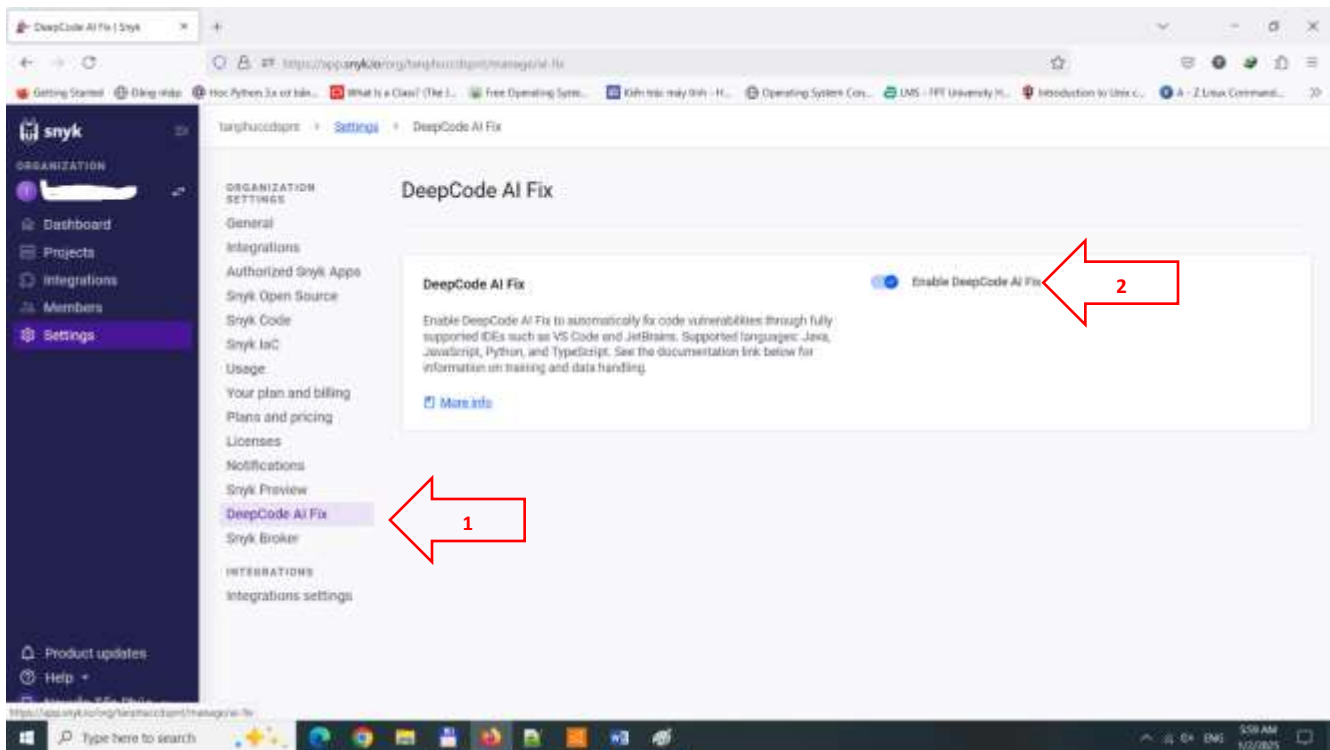


## II. Configure

### 2.1. On your Dashboard → Choose **Setting**

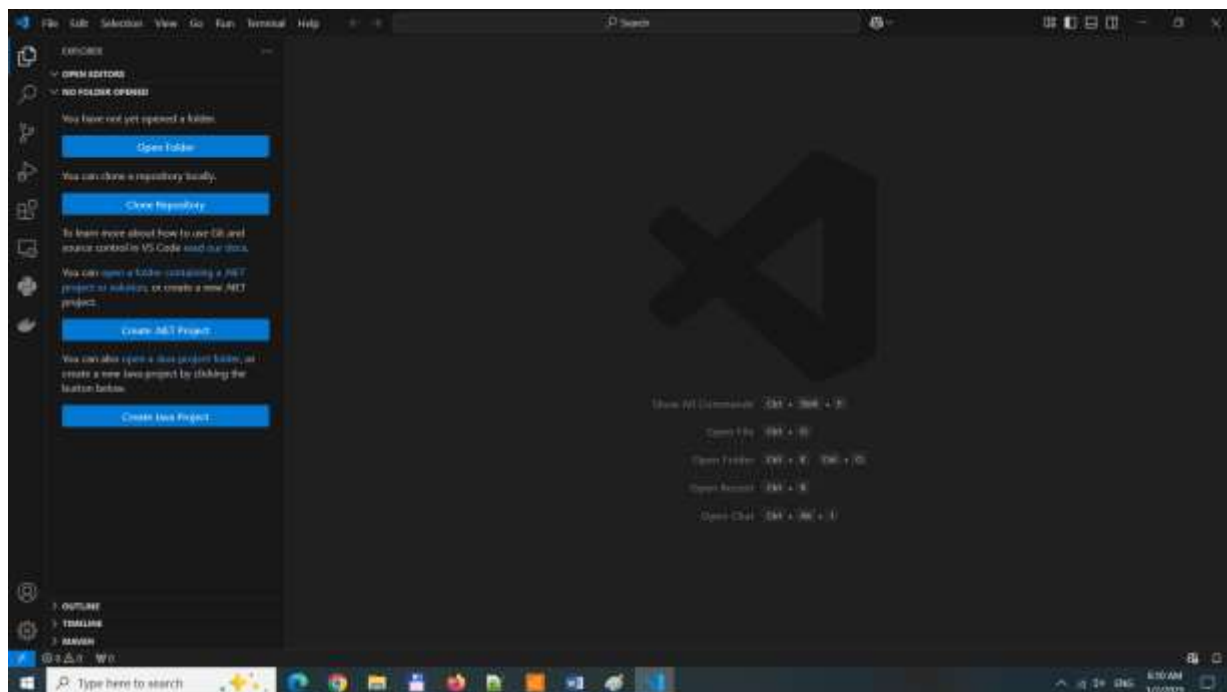


## 2.2. On Setting → DeepCode AI Fix → Enable DeepCode AI Fix



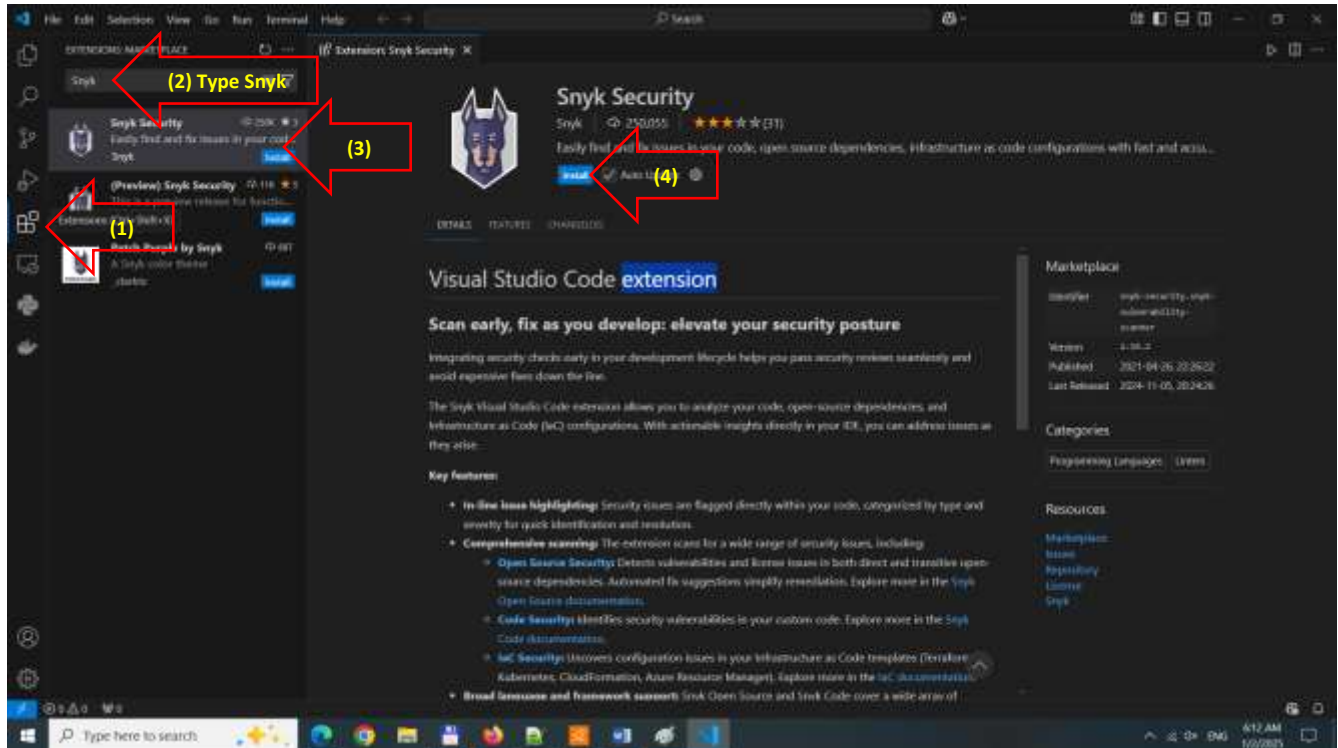
### III. Using Snyk with Visual Studio Code IDE (VS Code)

After installing VS Code and opening VS Code (see installation and configuration instructions in part [IV. Visual Studio Code IDE \(VS Code\)](#) below)

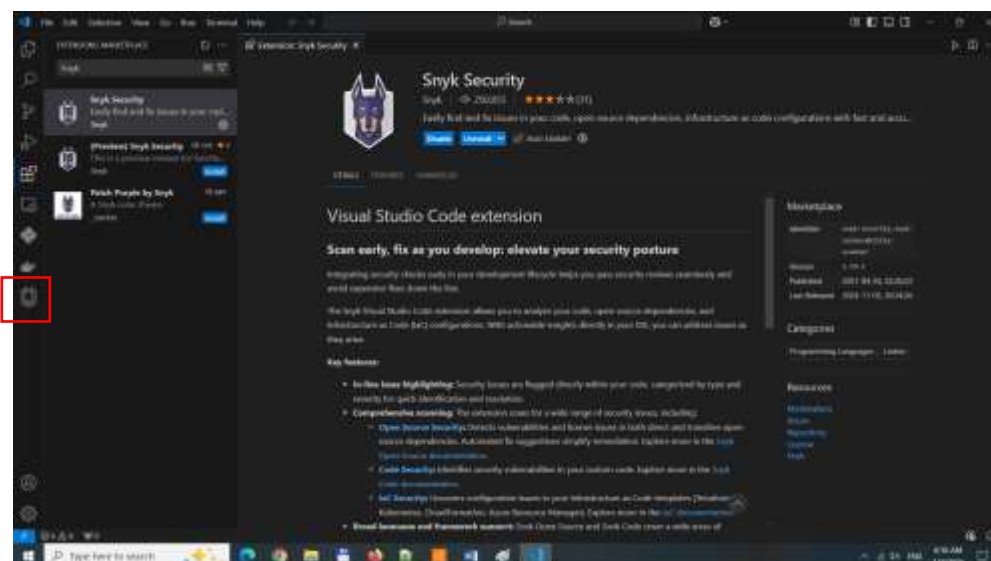


### 3.1. Install Snyk extension

- Choose **Extension** or press keys: **Ctrl + Shift + X**
- Type **Snyk** to filter
- Choose **Snyk Security**
- Choose **Install**



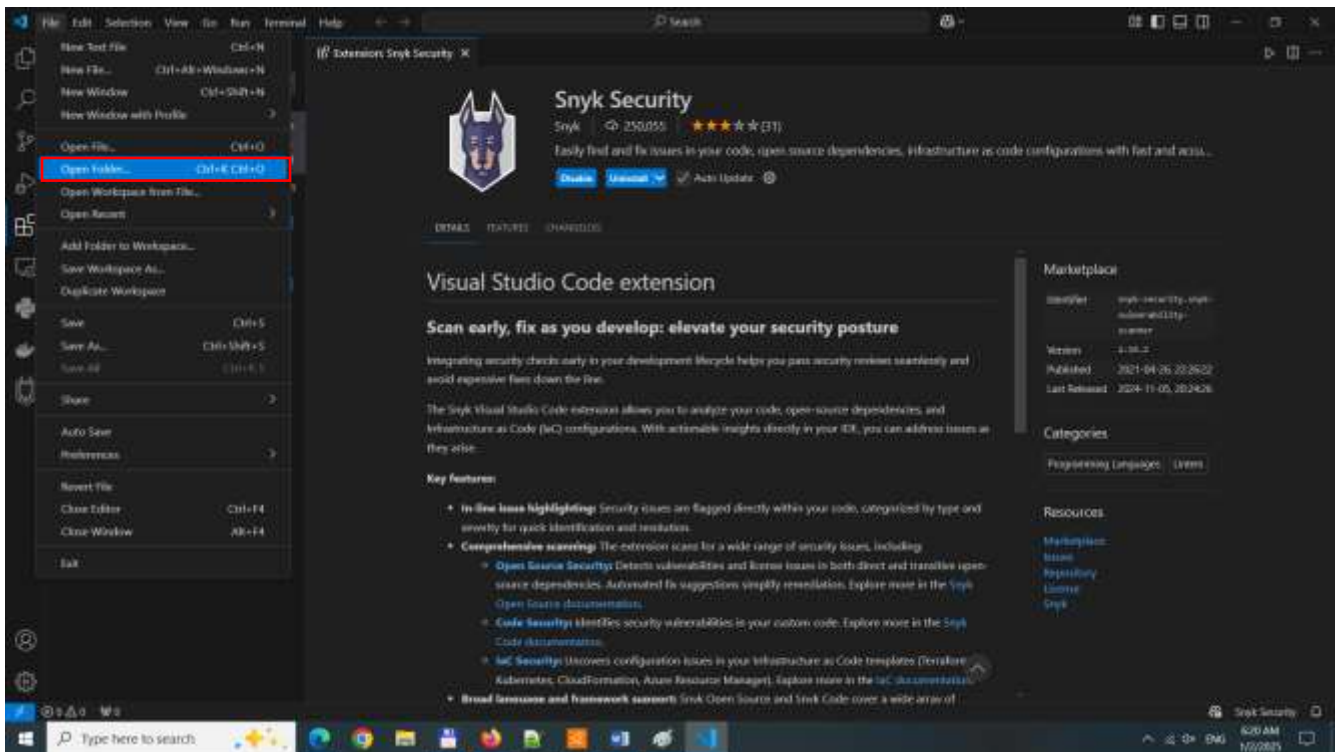
- After Install, the **Snyk icon** on the Activity Bar



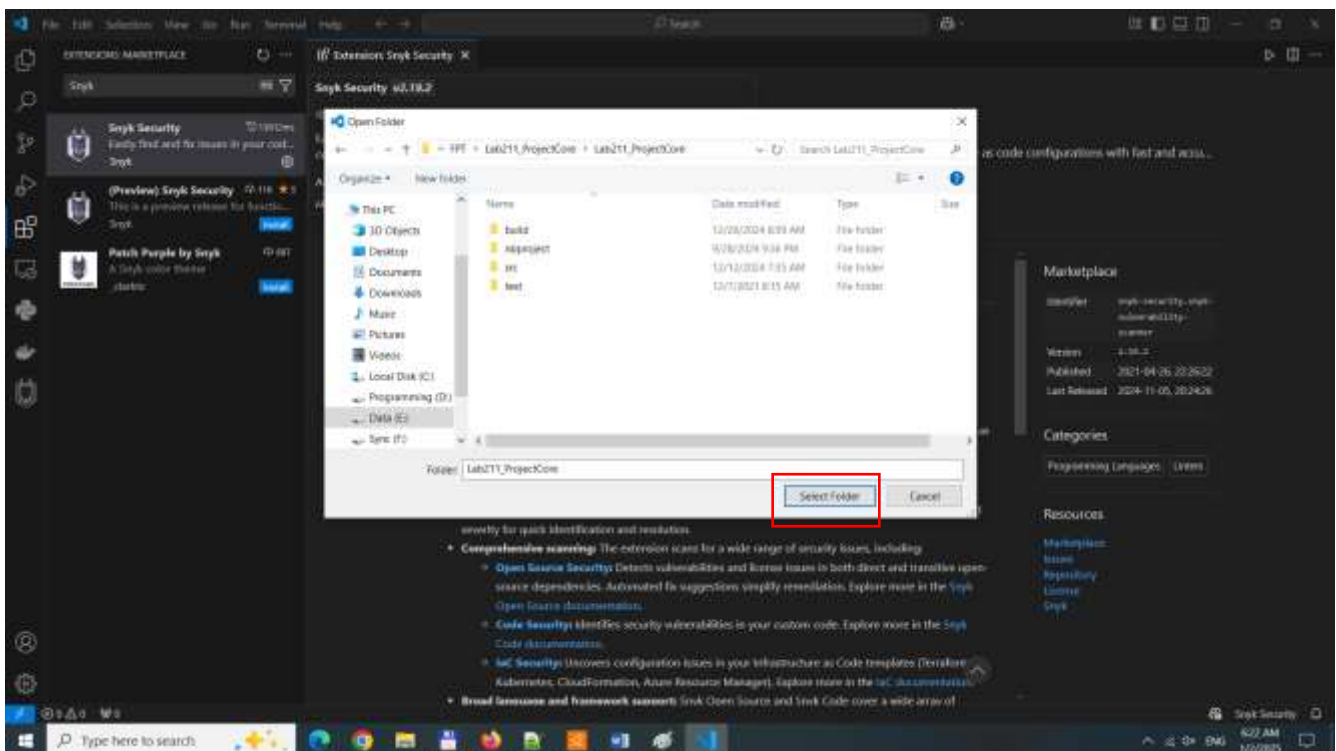


## 3.2. Synk with Java

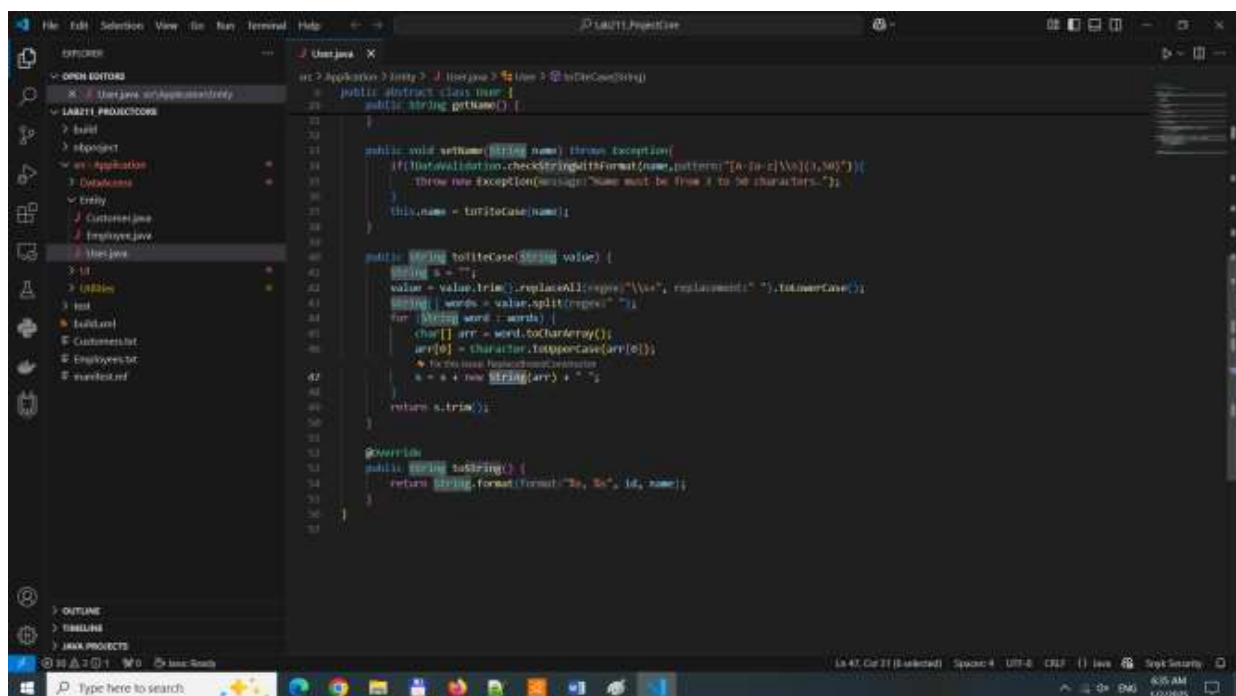
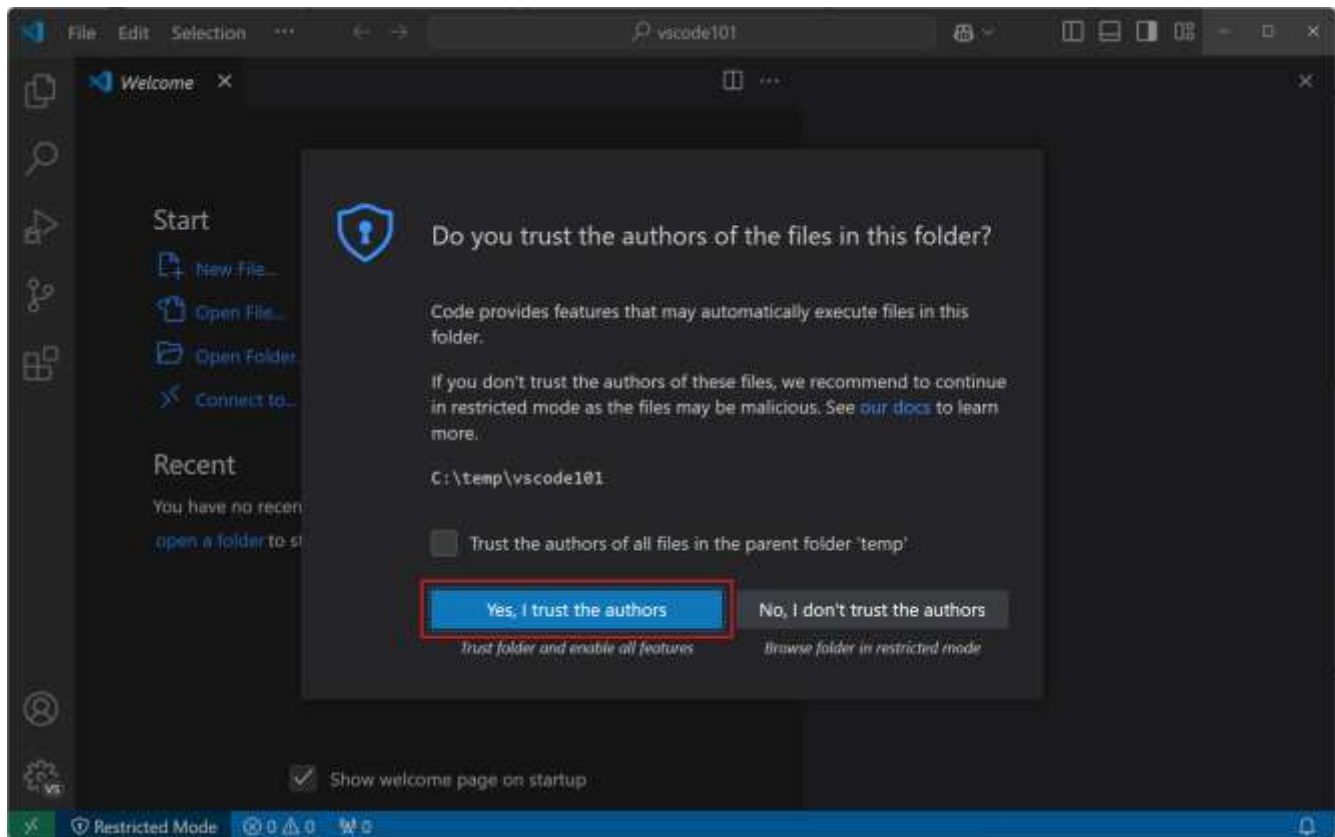
### 3.3.1. Open Java project folder: Choose File → Open Folder or Ctrl +K



After browser to Java project folder: Choose **Select Folder**

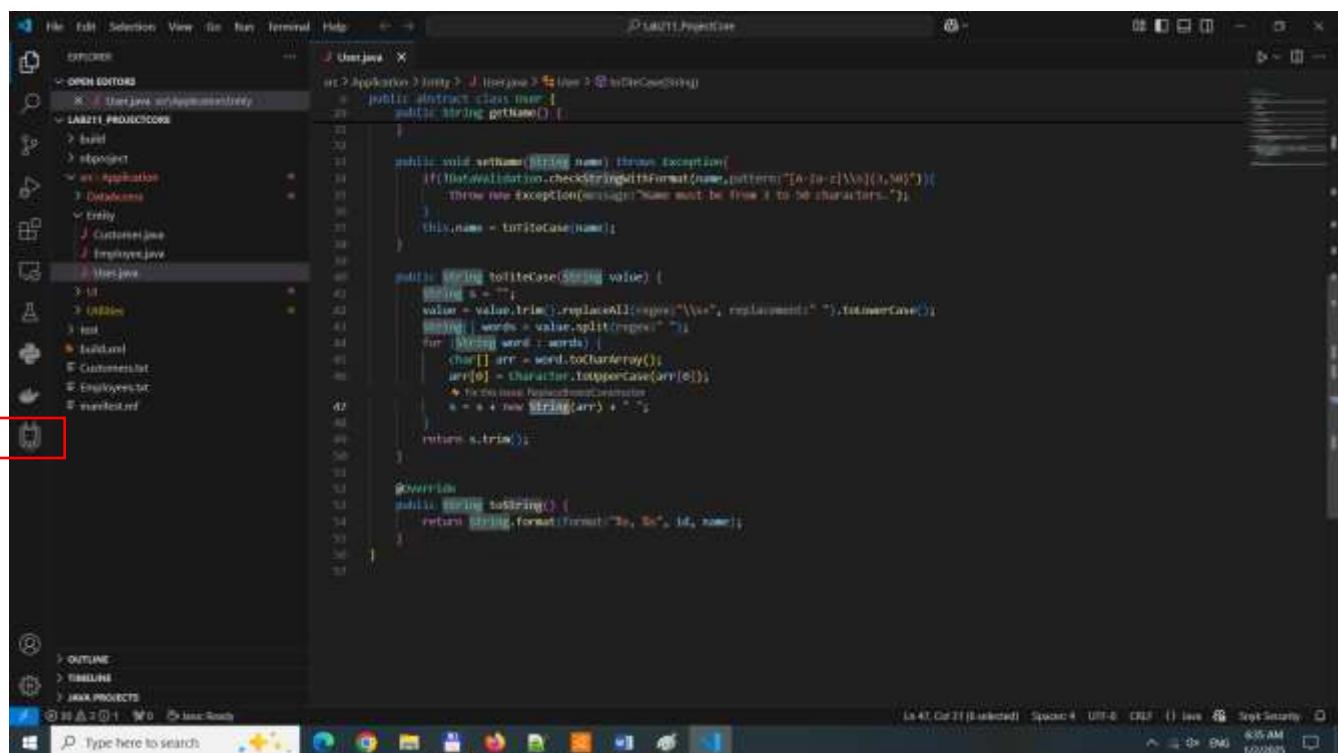


If this folder opened the first time by VS Code, VS Code will display the Workspace Trust dialog. Then, select **Yes, I trust the authors** to enable all features in the workspace. Example, we opened folder `c:\temp\vscode101`



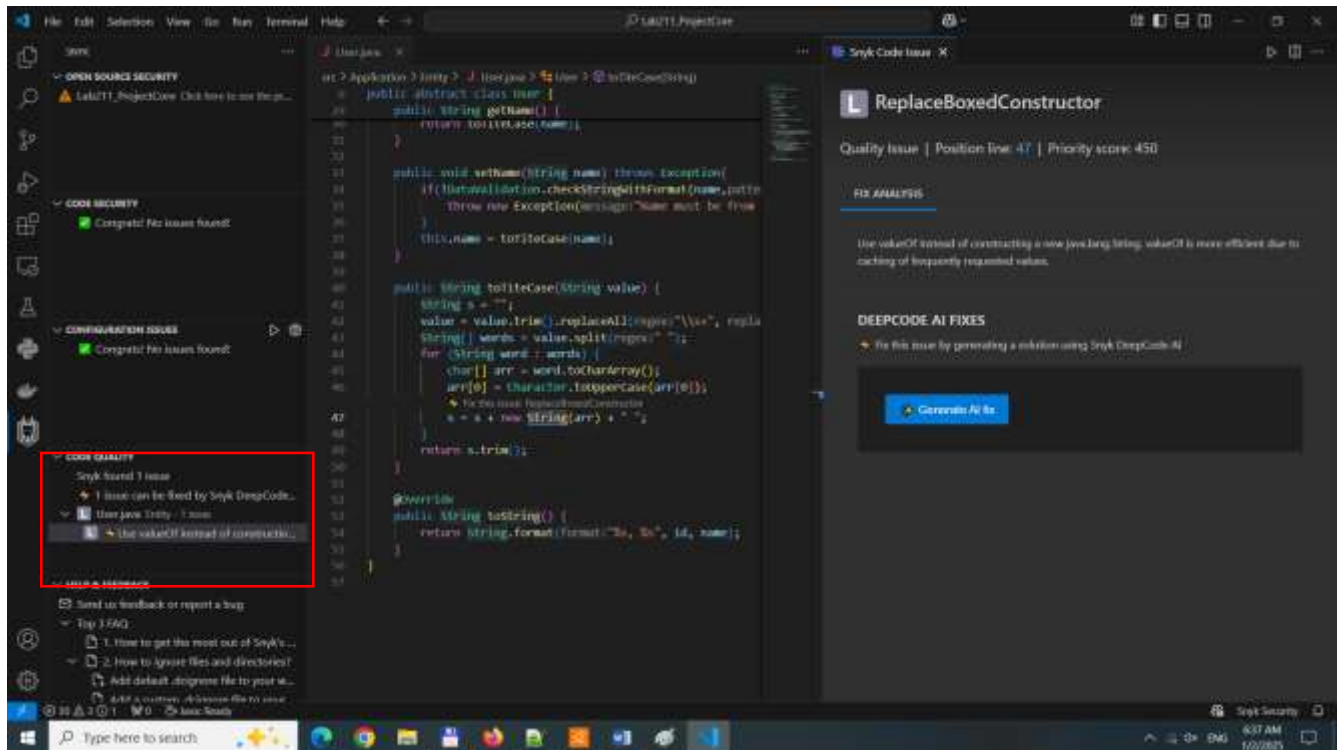
```
User.java X
src > Application > Entity > J User.java > User > toTiteCase(String)
6 public abstract class User {
33 public void setName(String name) throws Exception{
34     if(!DataValidation.checkStringWithFormat(name,pattern:"[A-Za-z|\\s]{3,50}")){
35         throw new Exception(message:"Name must be from 3 to 50 characters.");
36     }
37     this.name = toTiteCase(name);
38 }
39
40 public String toTiteCase(String value) {
41     String s = "";
42     value = value.trim().replaceAll(regex:"\\s+", replacement:" ").toLowerCase();
43     String[] words = value.split(regex:" ");
44     for (String word : words) {
45         char[] arr = word.toCharArray();
46         arr[0] = Character.toUpperCase(arr[0]);
47         // Fix this issue: ReplaceBoxedConstructor
48         s = s + new String(arr) + " ";
49     }
50     return s.trim();
51 }
52
53 @Override
54 public String toString() {
55     return String.format(format:"%s, %s", id, name);
56 }
```

3.3.2. Using Snyk to analyze code: Click the **Snyk** icon on the Activity Bar

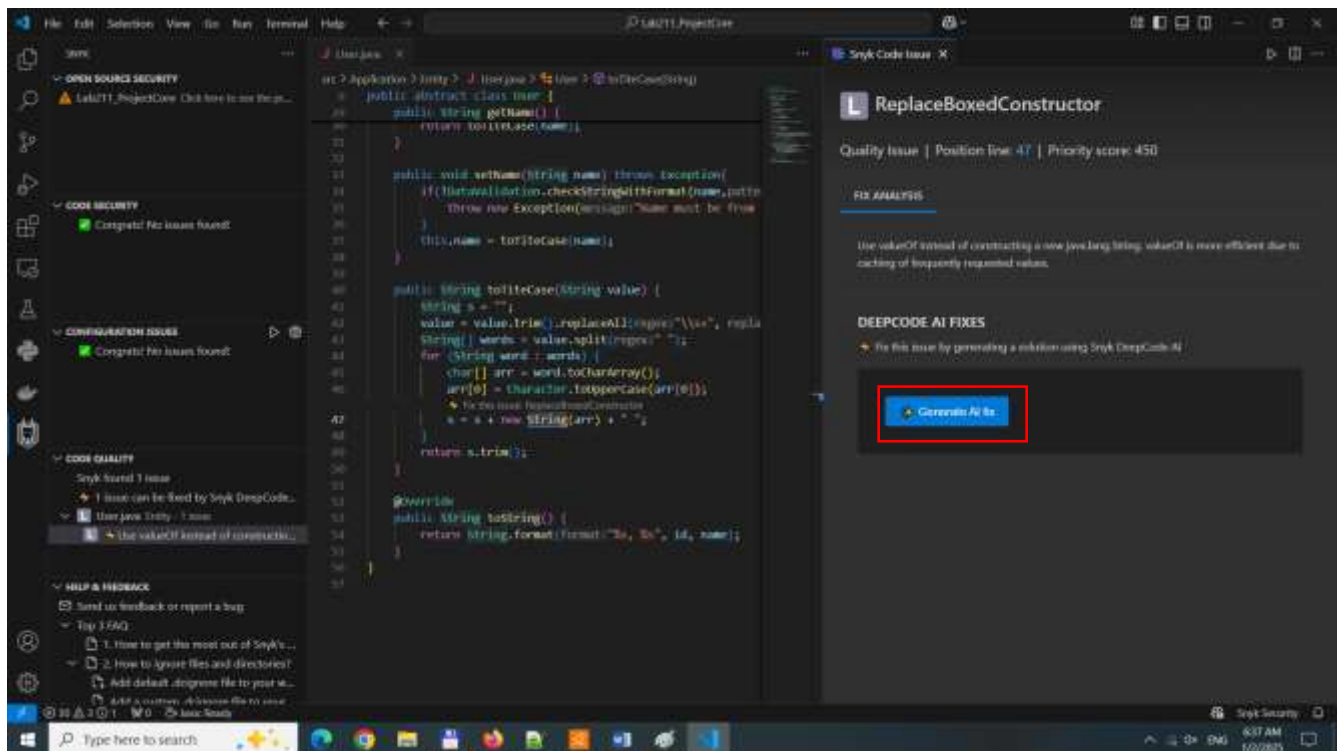




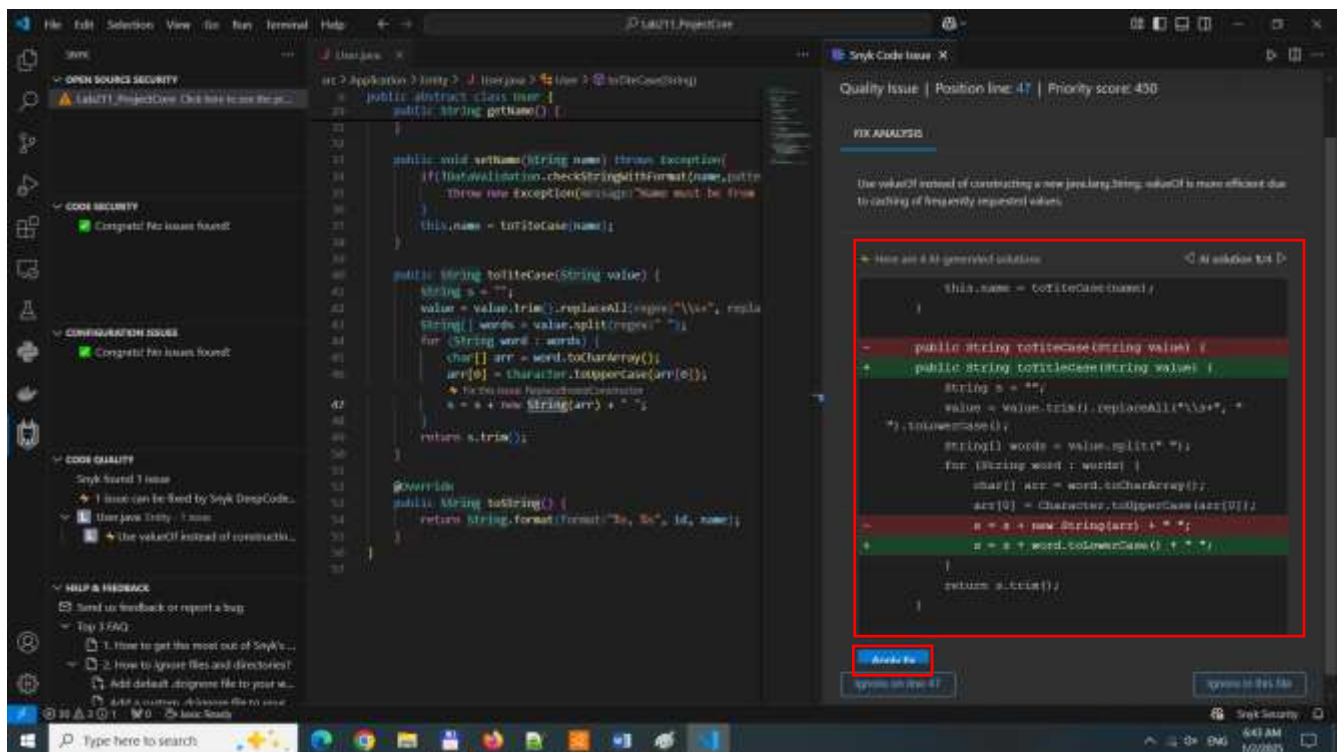
Snyk to analyze code report: *Example, code quality, Snyk found 1 issue, then suggest using valueOf at line 47*



### 3.3.3. DeepCode AI fix: Click **Generate AI fix**



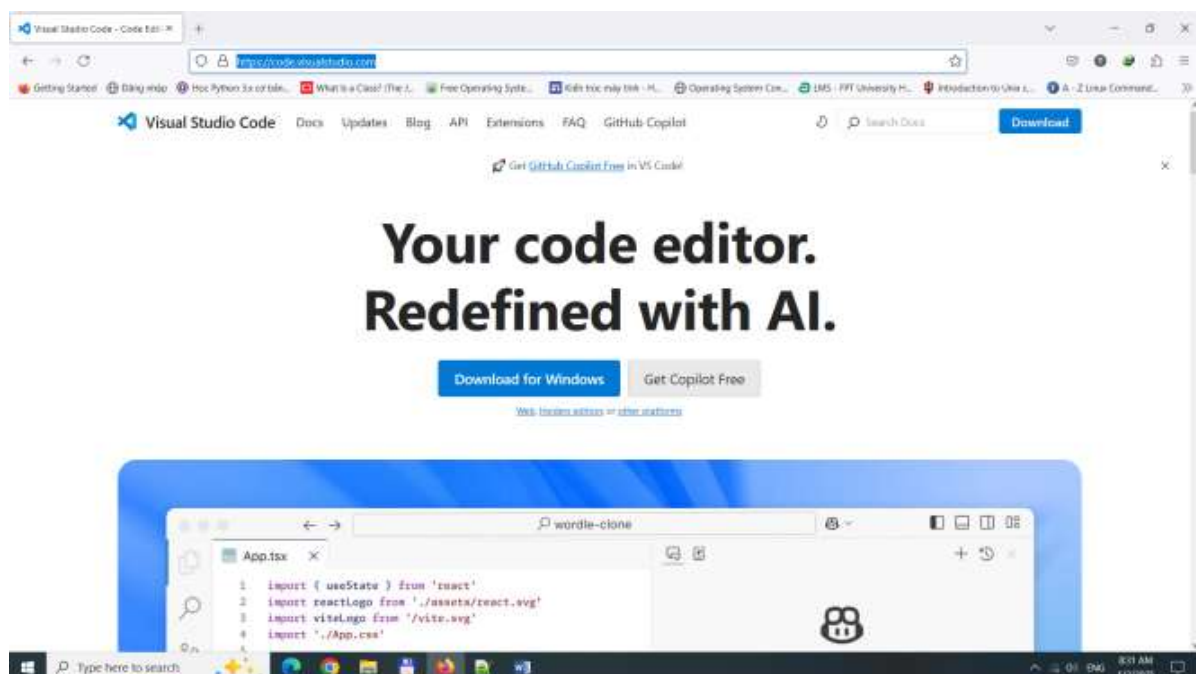
Snyk AI suggests 4 solutions. We choose the best solution and click **Apply fix**



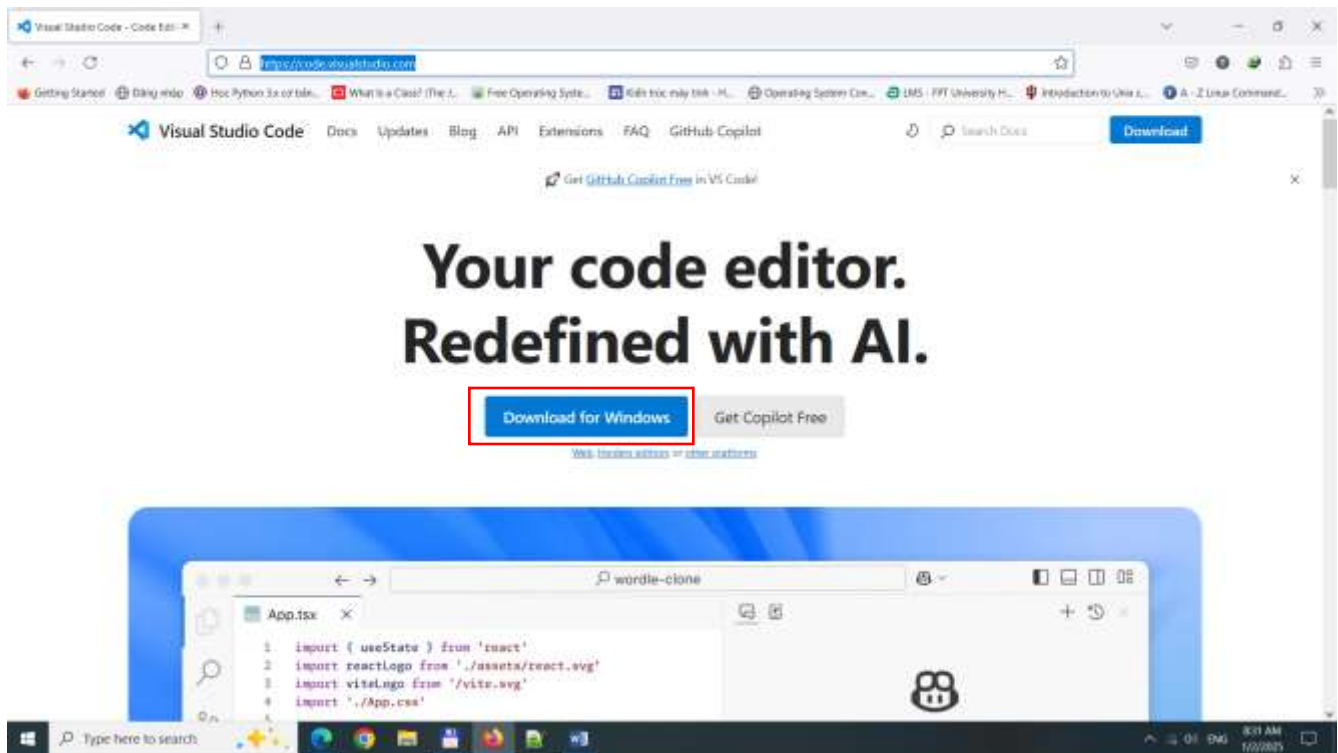
## IV. Visual Studio Code IDE (VS Code)

### 4.1. Download

4.1.1. Go to the website: <https://code.visualstudio.com/>

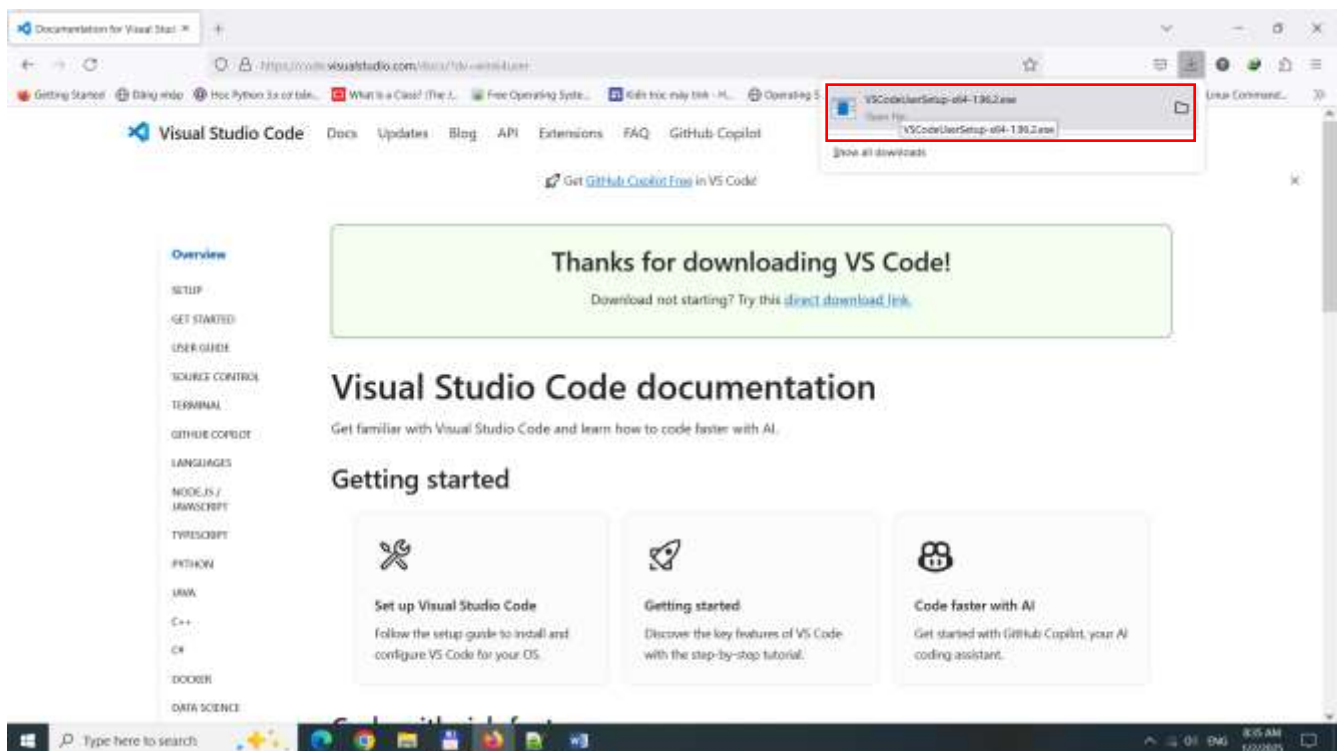


#### 4.1.2. Choose **Download for Windows** to download

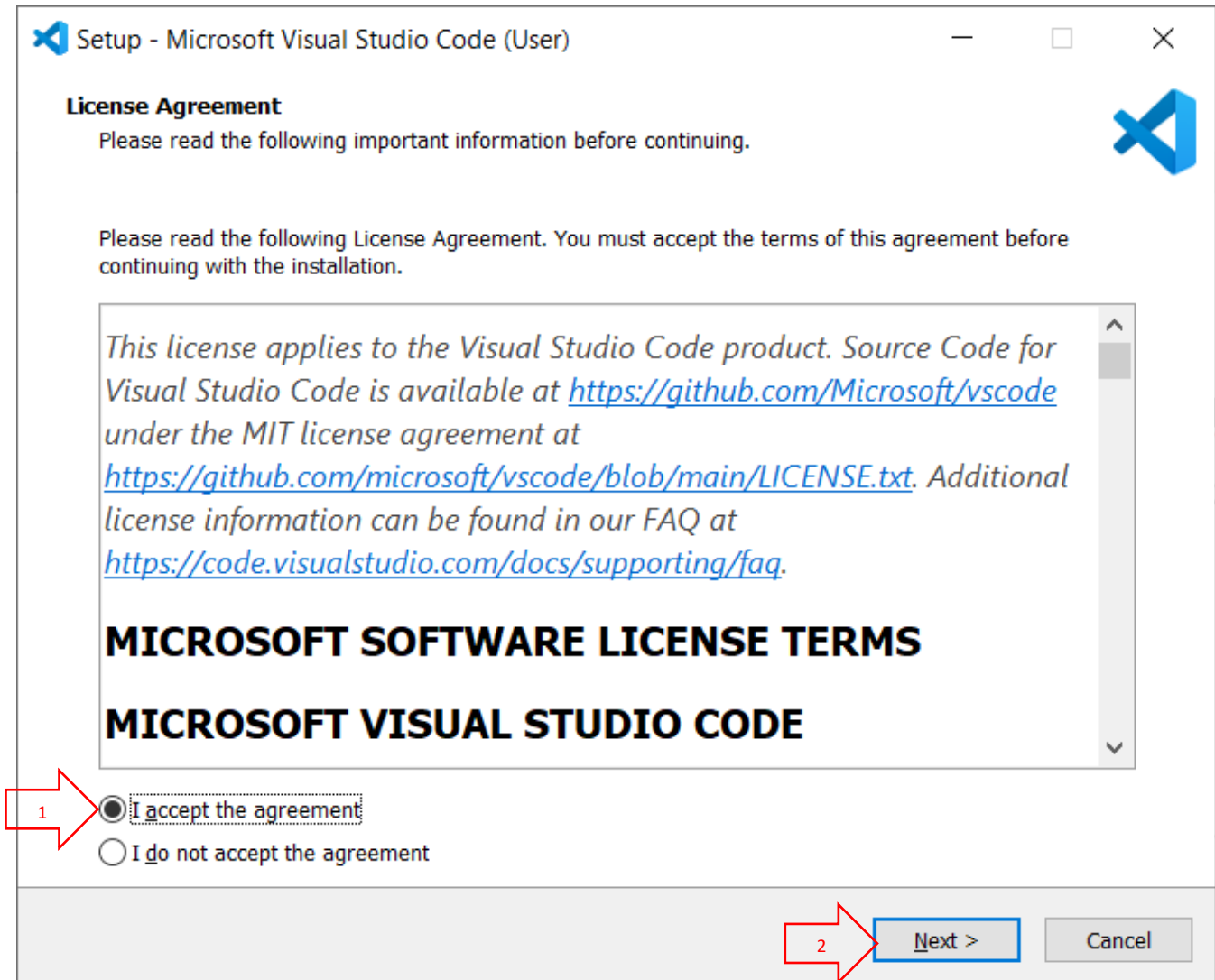


## 4.2. Install

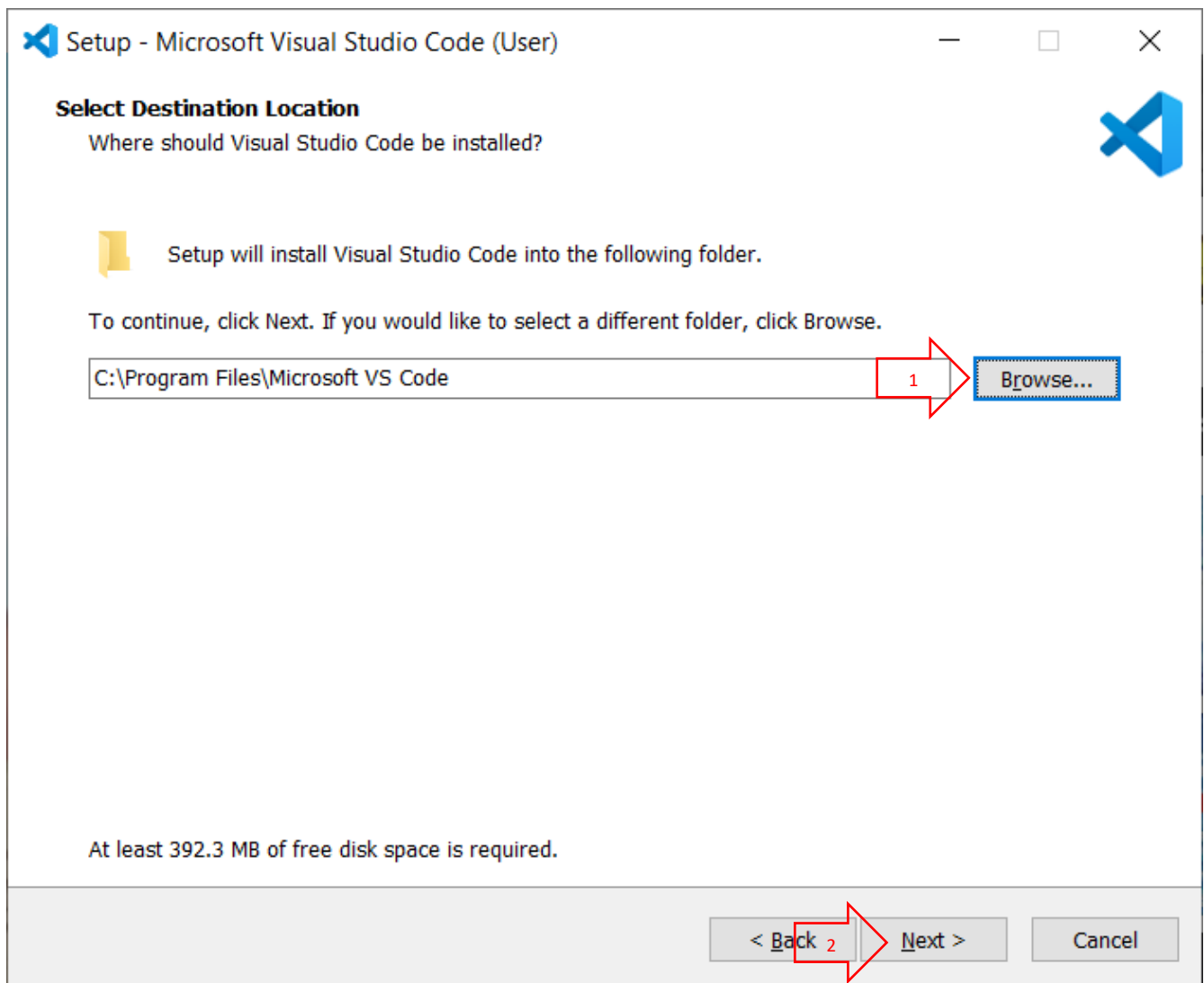
### 4.2.1. Open **VSCodeUserSetup-x64-1.96.2.exe**



4.2.2. After the Installer opens, it will ask you to accept the terms and conditions of the Visual Studio Code. Click on **I accept the agreement** and then click the **Next** button.

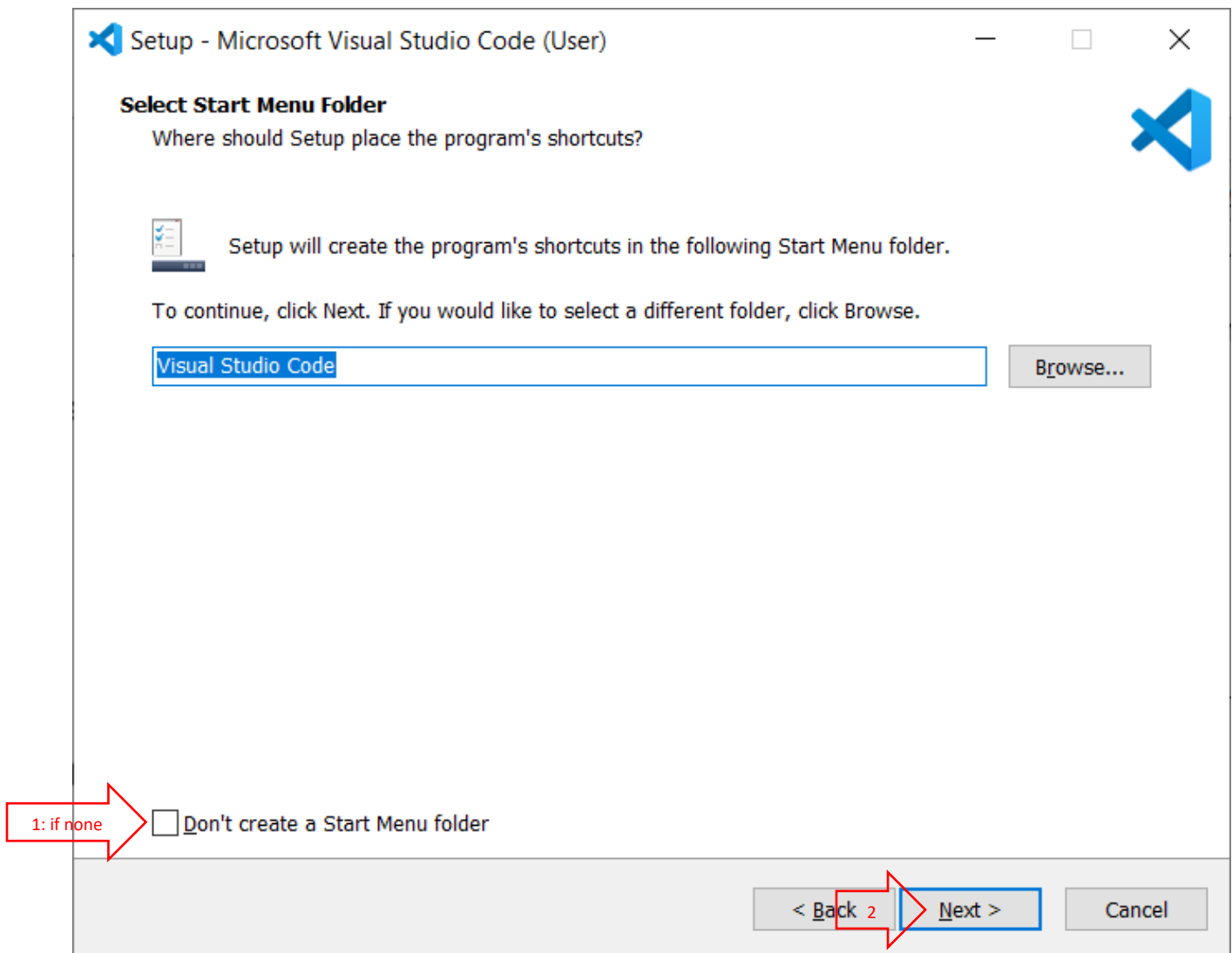


4.2.3. By default, the Visual Studio Code installation location displayed on the screen. However, you can choose a different location by clicking the “**Browse**” button and selecting a different directory. Then click on the **Next** button.

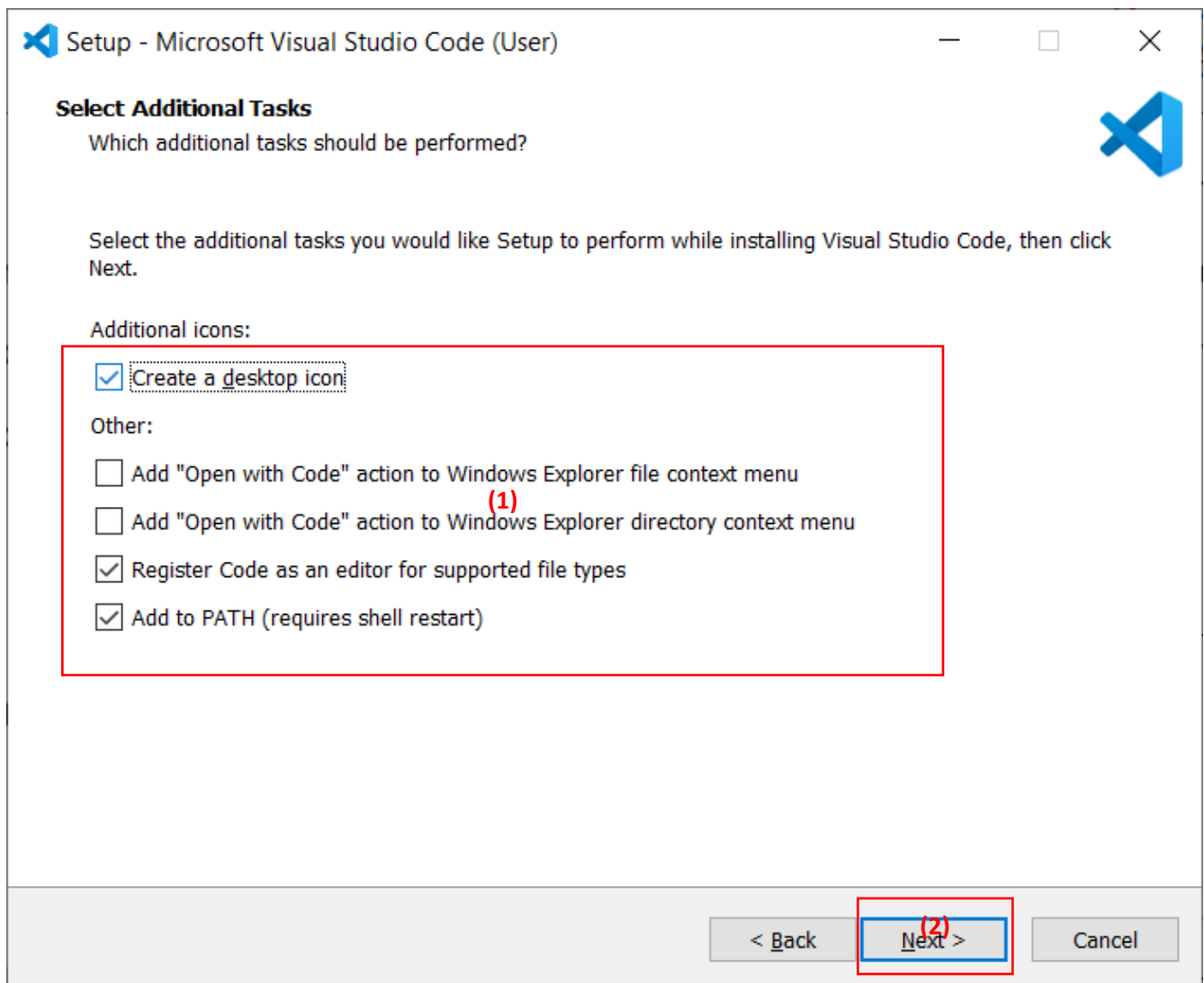


4.2.4. Select **Additional Tasks**. You can choose to create a start menu folder for VS Code or leave it unchecked if you prefer not to have a start menu entry. Then click on the **Next** button.

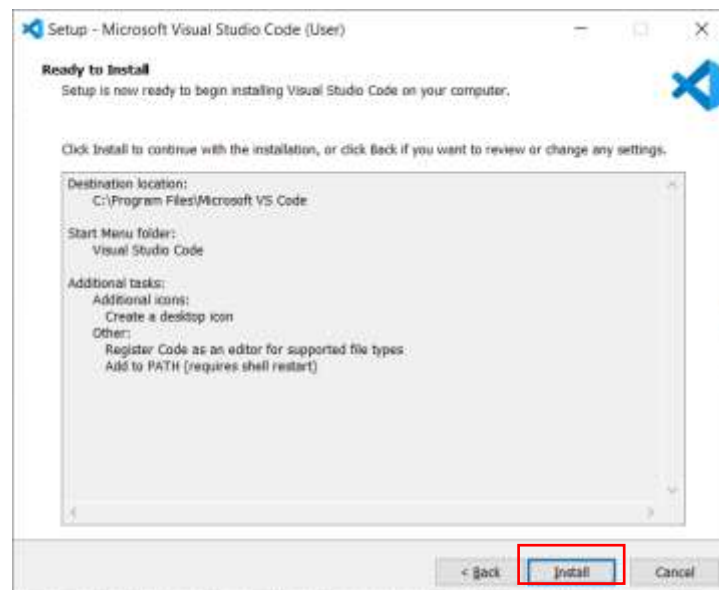


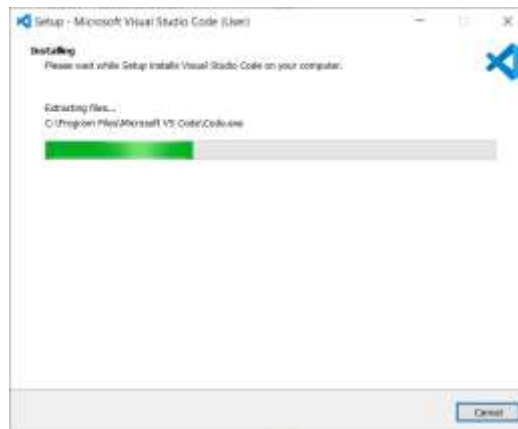


4.2.5. The installer may provide additional options, such as creating a desktop icon, adding Visual Studio Code to the PATH environment variable, or installing additional components. Review these options and make your selections based on your preferences. Then click on the **Next** button.

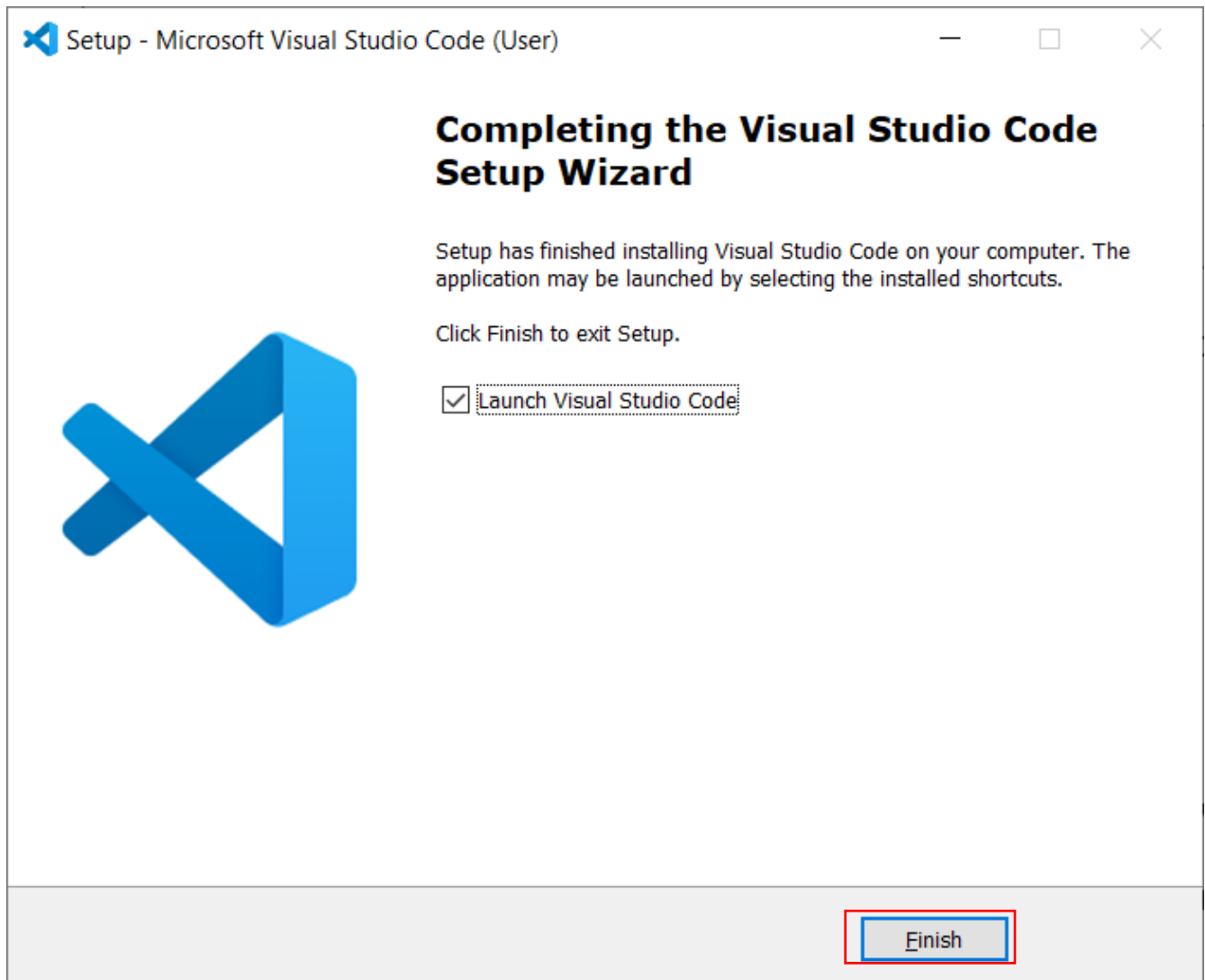


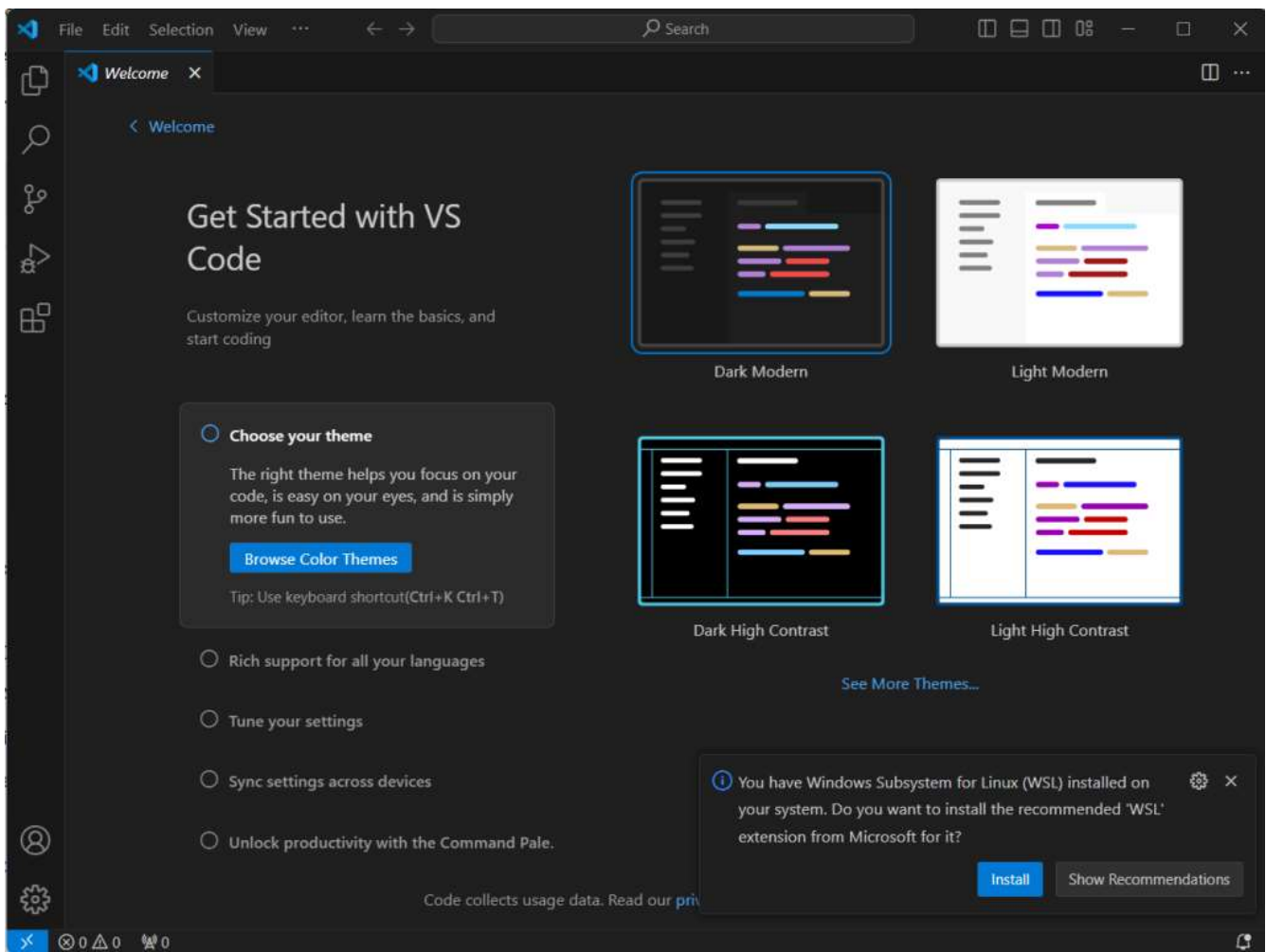
4.2.6. Click the **Install** button to begin the installation process.





4.2.7. Once the installation is complete, you can launch Visual Studio Code by clicking the **Finish** button in the installer:





4.2.8. The icon of **Visual Studio Code** on Desktop.

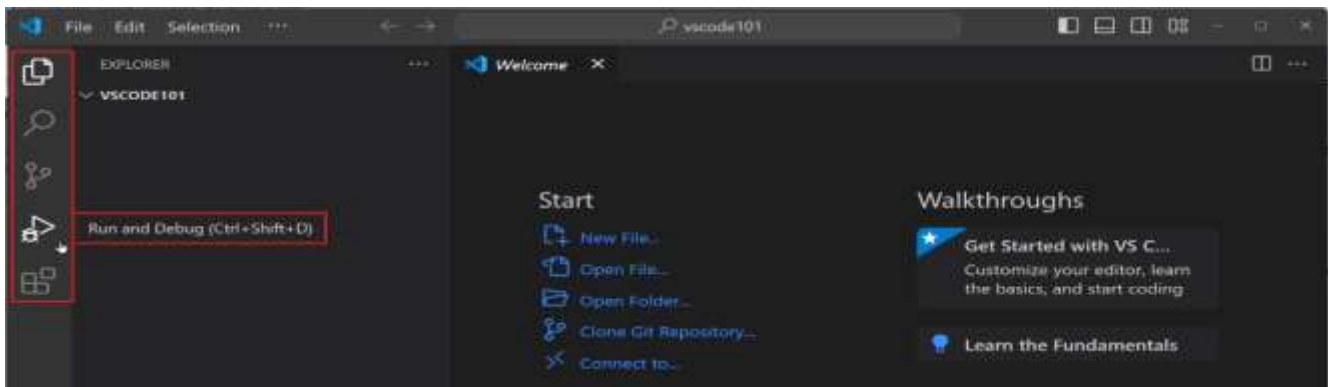


### 4.3. The basic user interface

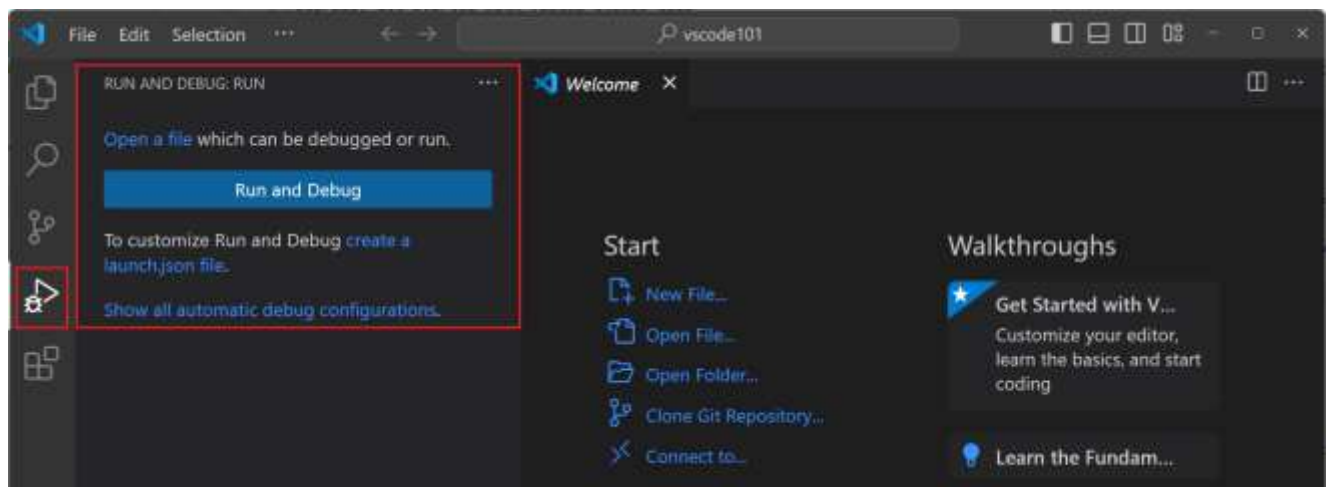
Now that you have a folder open in VS Code, we take a quick tour of the user interface.

4.3.1. Switch between views with the Activity Bar

4.3.1.1. Use the Activity Bar to switch between different views.

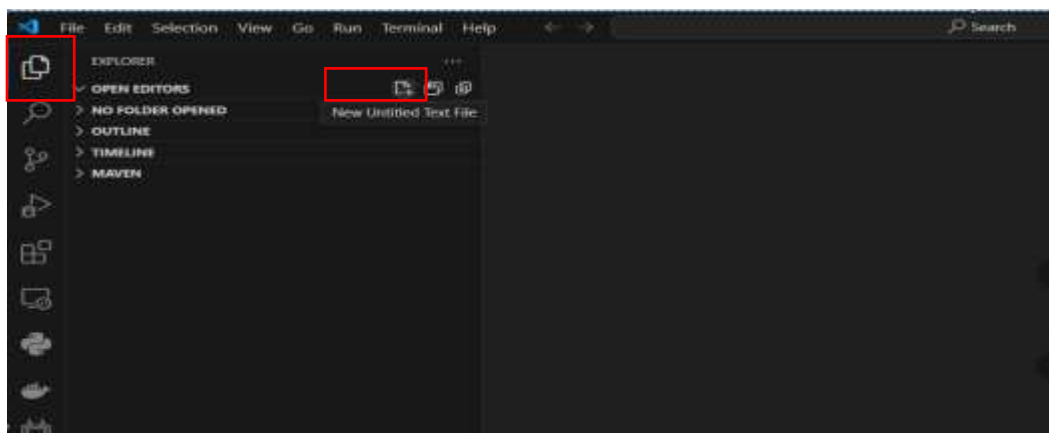


4.3.1.2. When you select a view in the Activity Bar, the **Primary Side Bar** opens to show view-specific information. For example, the Run and Debug view enables you to configure and start debugging sessions.



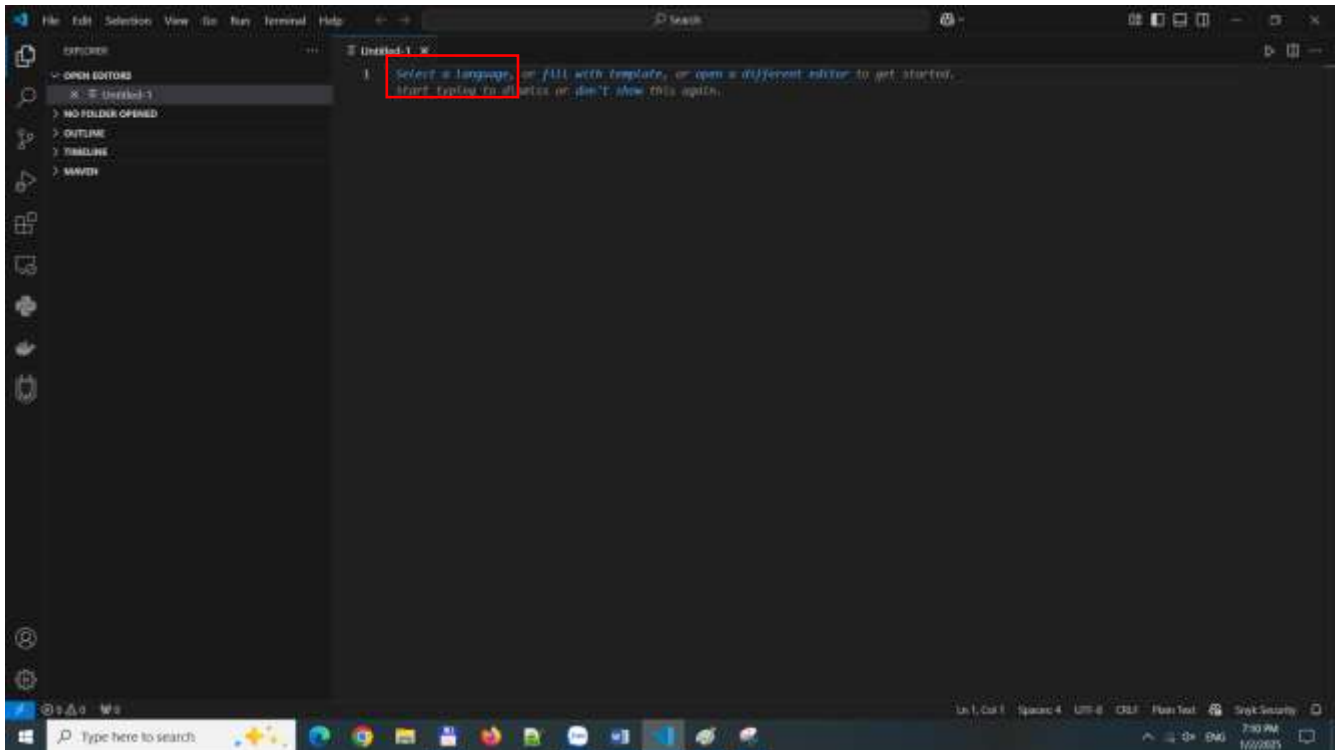
4.3.2. View and edit files with the Editor

4.3.2.1. Select the Explorer view in the Activity Bar, and select the **New Untitled Text File** button to create a new file in your workspace.

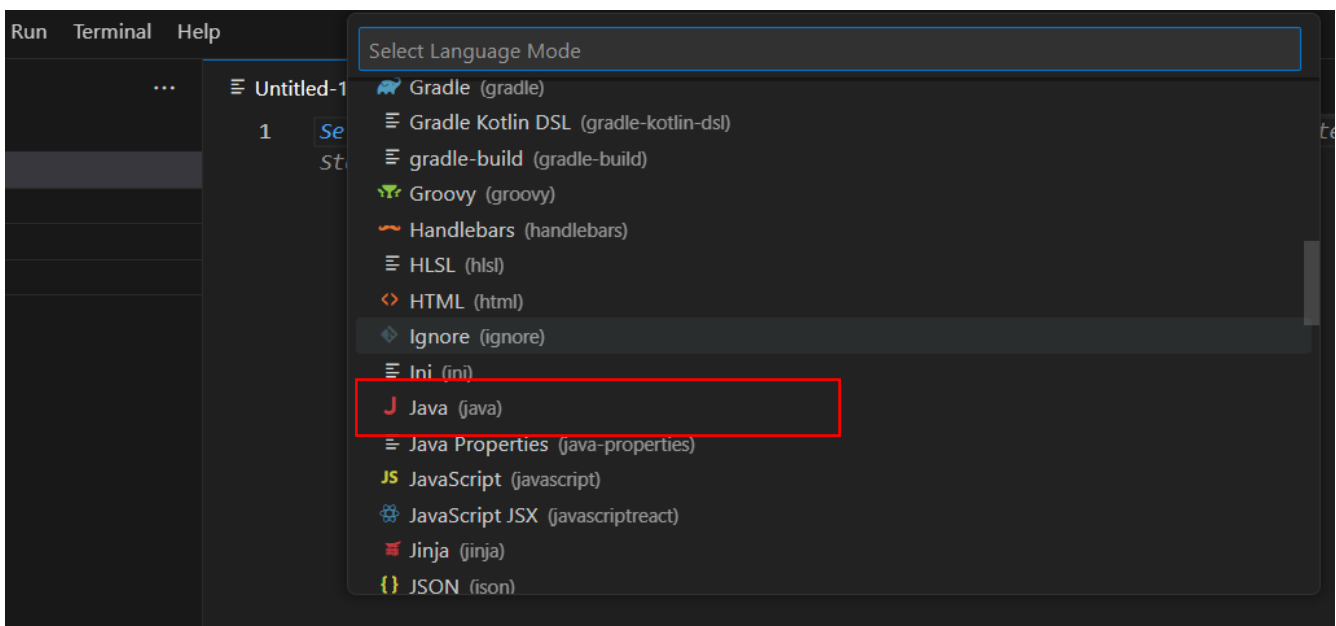




#### 4.3.2.2. Click **Select a language**.

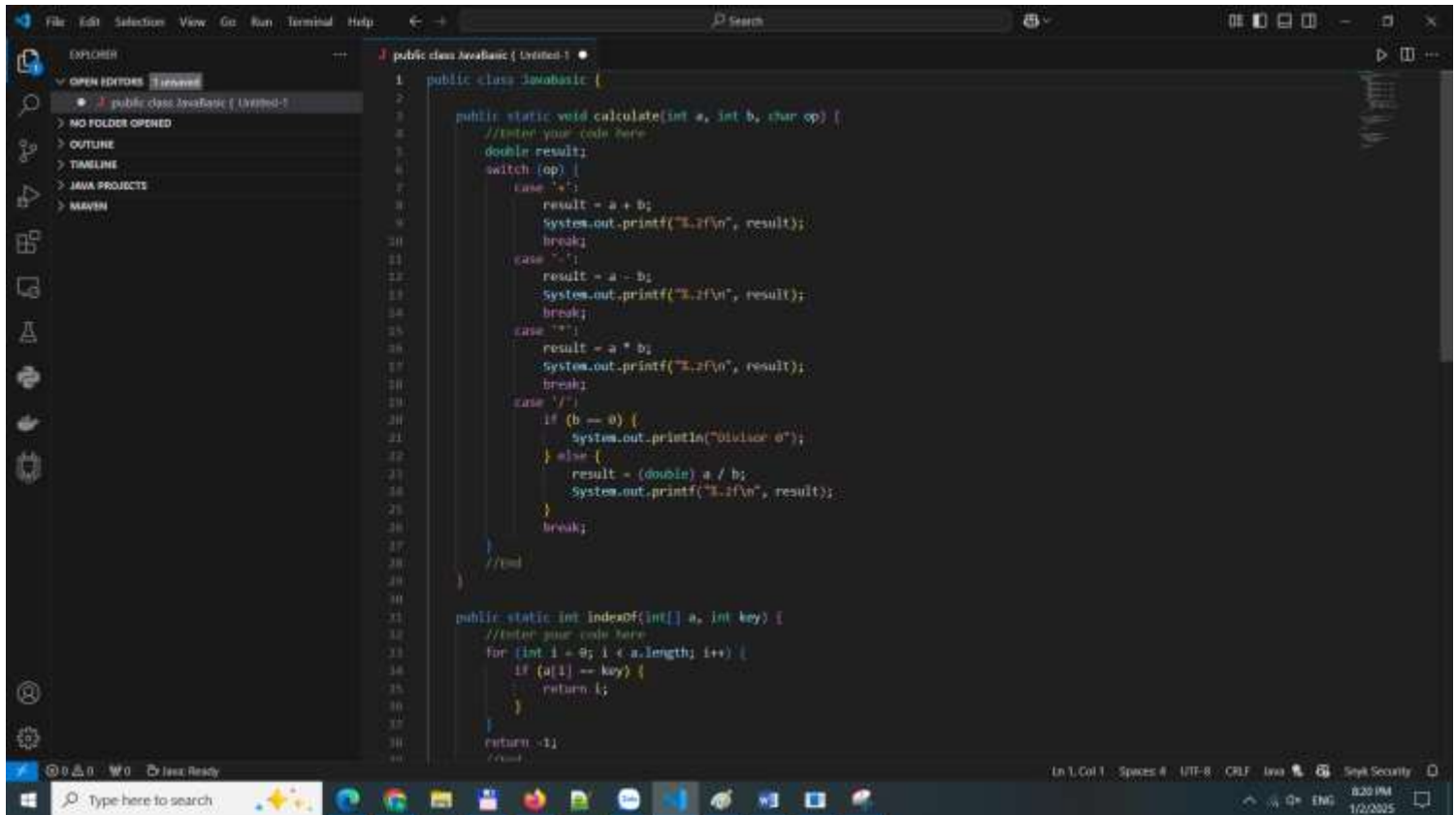


#### 4.3.2.3. Choose **Java (java)**

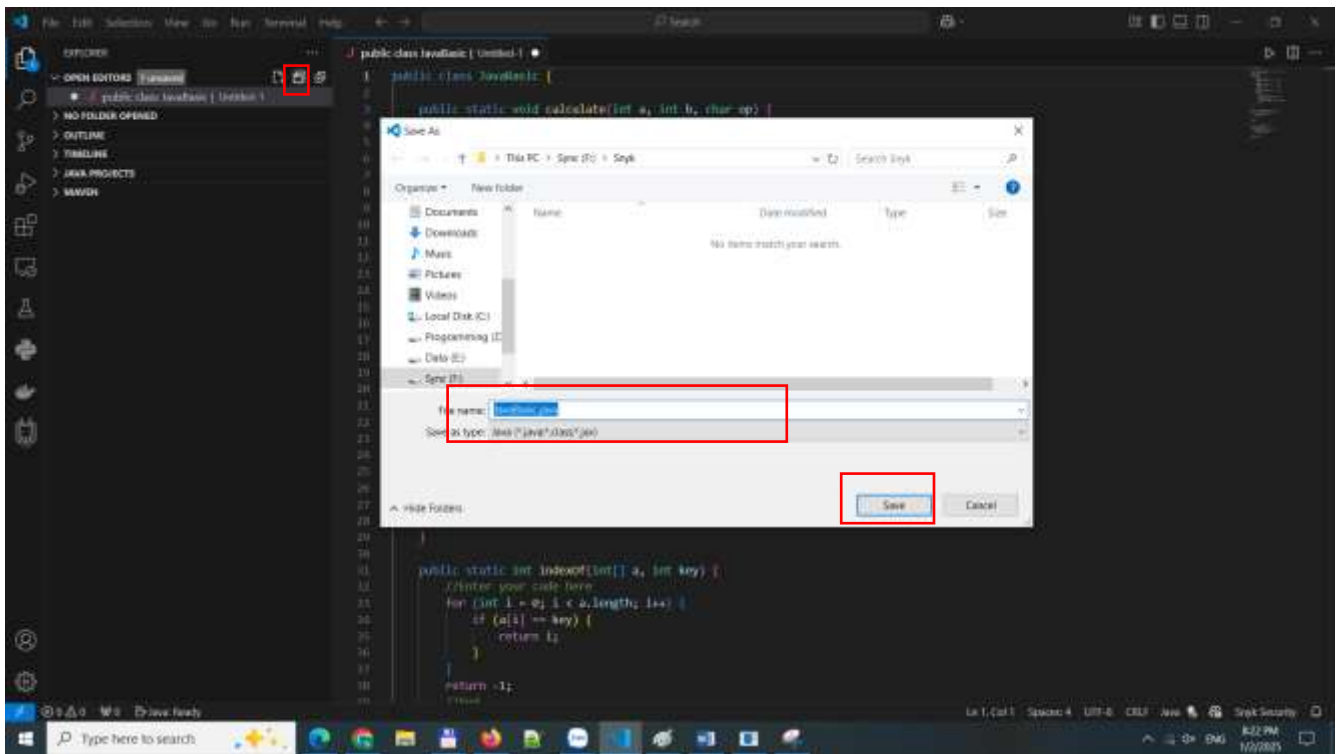


#### 4.3.2.4. Start typing some code in the file.

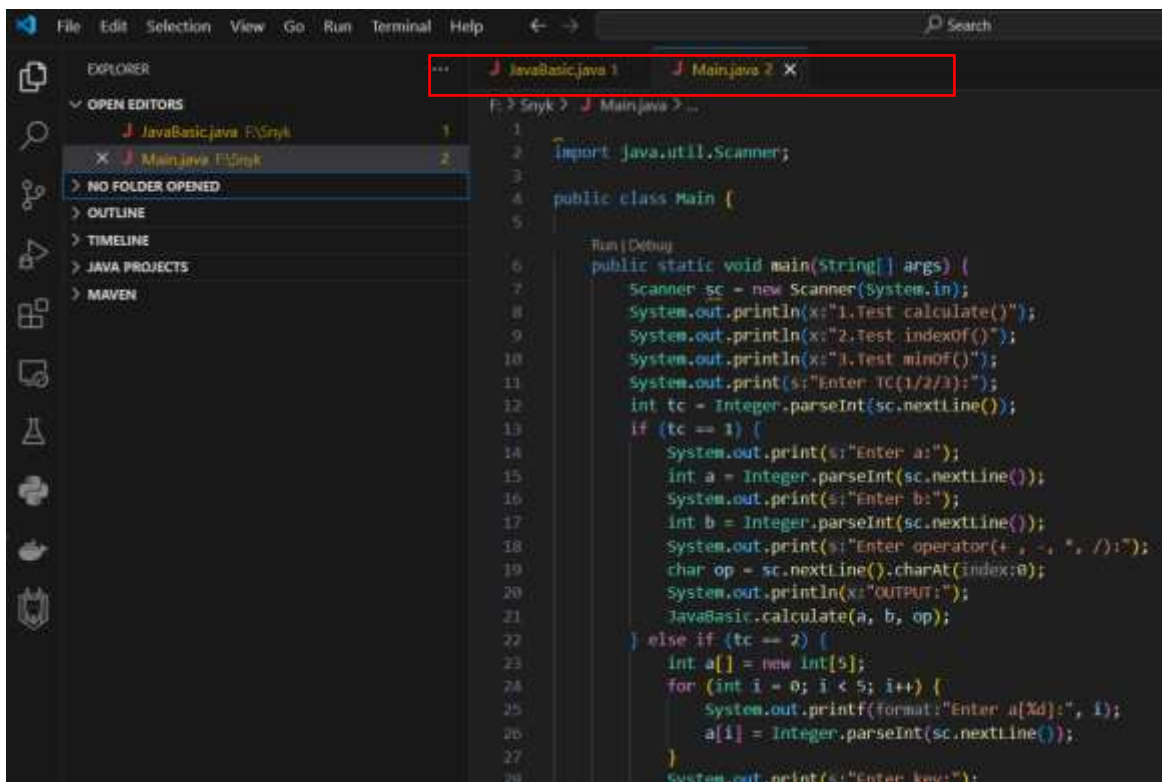
As you type, you should see suggestions popping up that help you complete your code (*IntelliSense*). You can use the **Up** and **Down** keys to navigate the suggestions, and **Tab** to insert the selected suggestion.



4.3.2.5. Click the icon **Save All**, then type the file name and choose **Save**. A file added to your workspace and an Editor opens in the main area of the window. Example, file name is JavaBasic.java

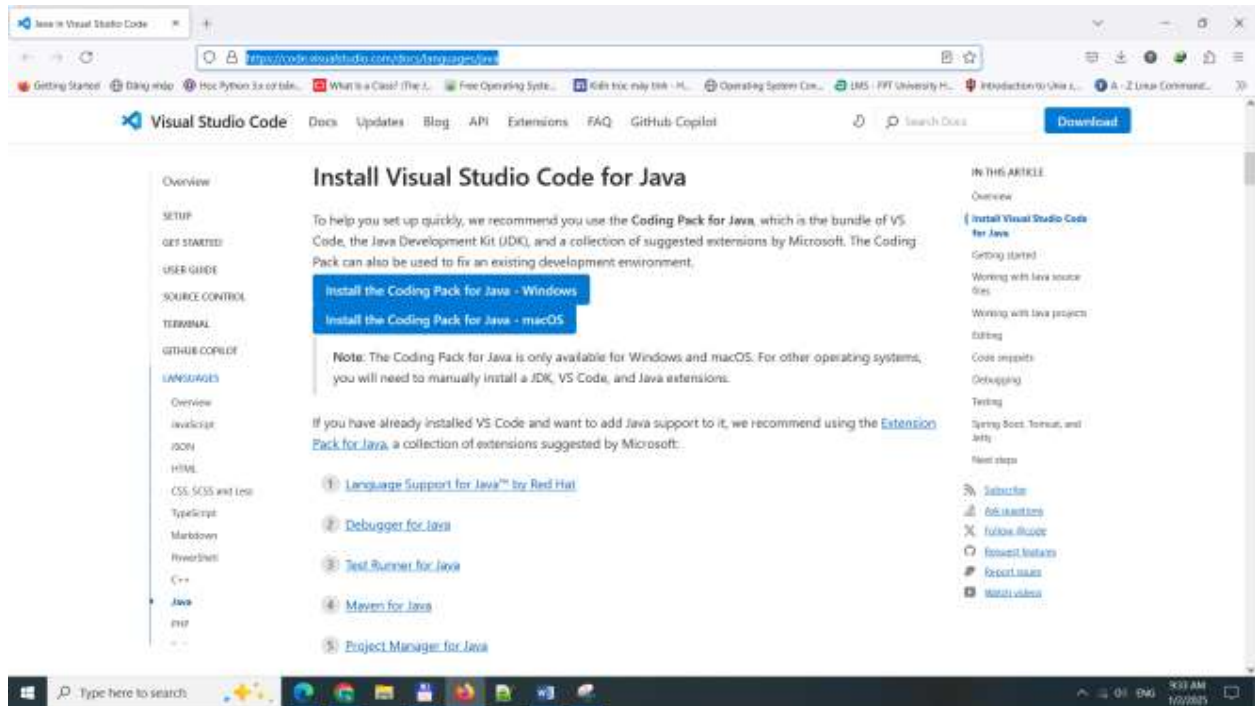


4.3.2.6. Add more files to your workspace and notice that each file opens a new Editor tab. You can open as many editors as you like and view them side by side vertically or horizontally.

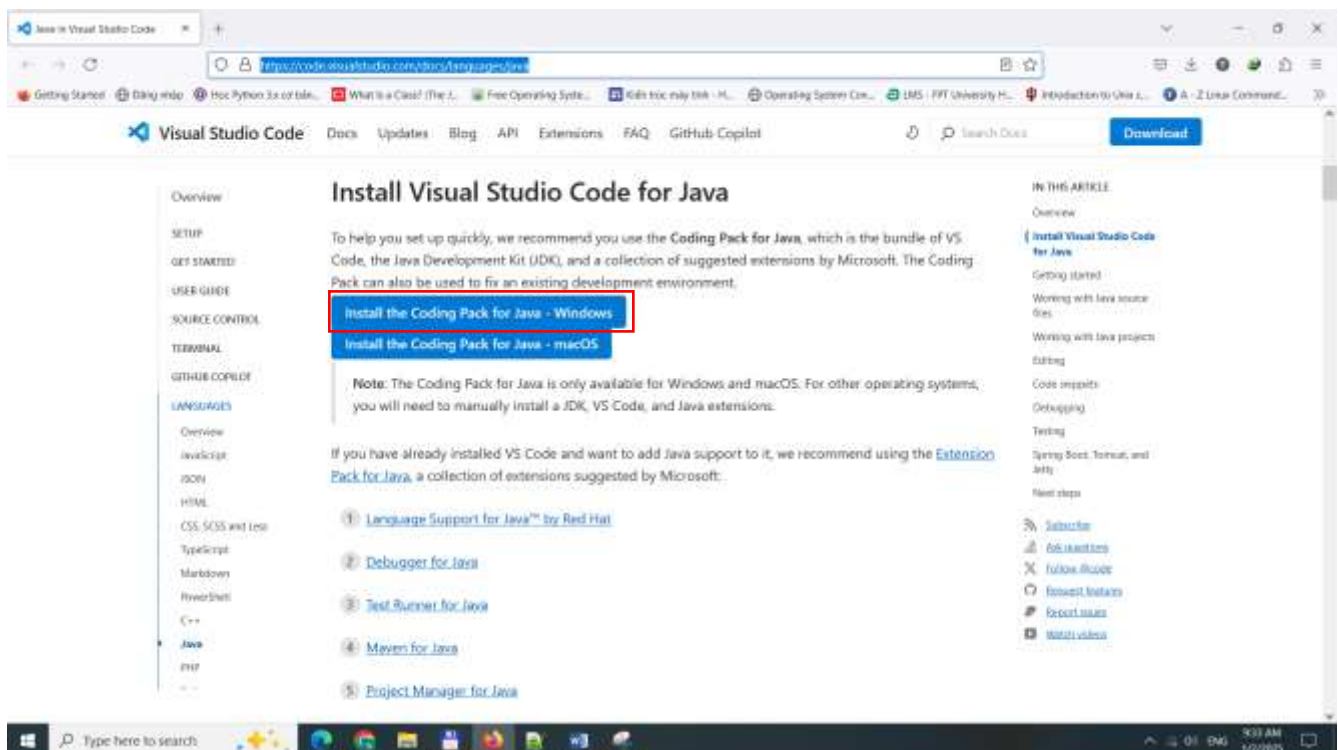


## 4.4. Configure run Java on VS Code

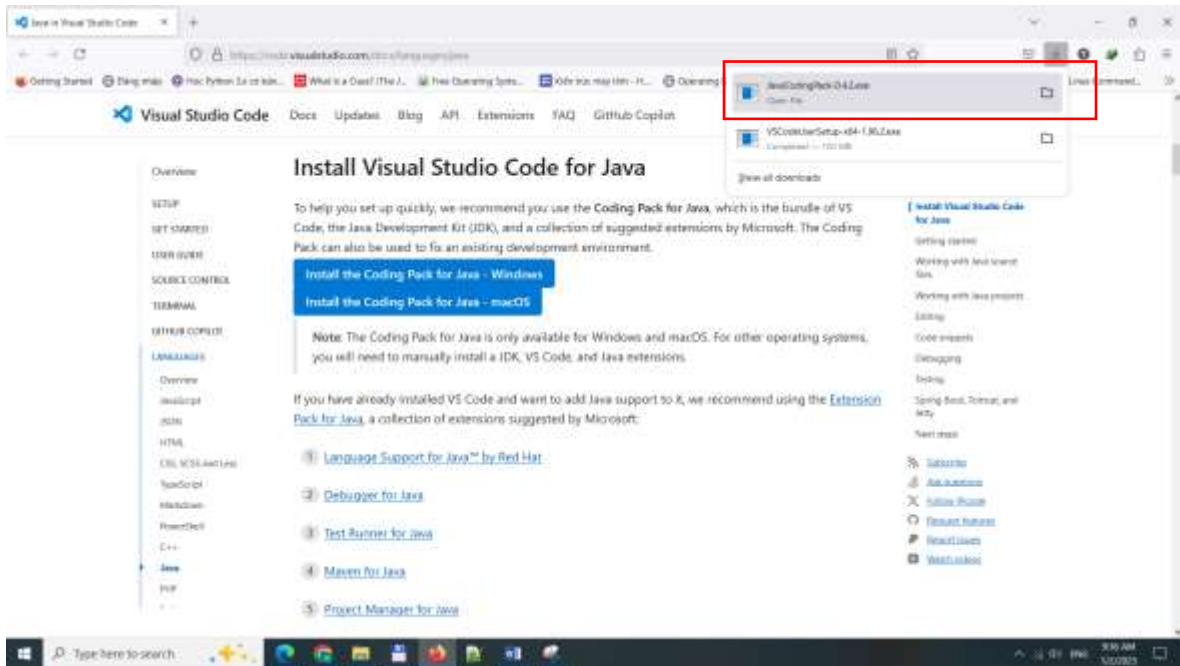
### 4.4.1. Go to the website: <https://code.visualstudio.com/docs/languages/java>



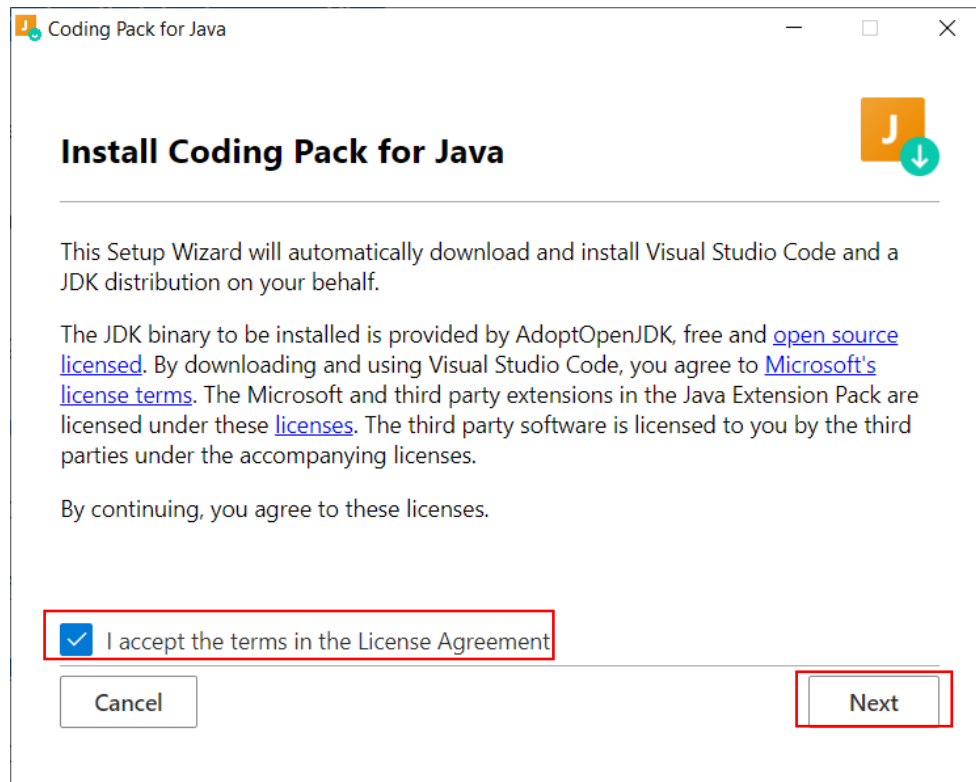
### 4.4.2. Choose **Install the Coding Pack for Java - Windows** to download



#### 4.4.3. Run JavaCodingPack-0.4.2.exe

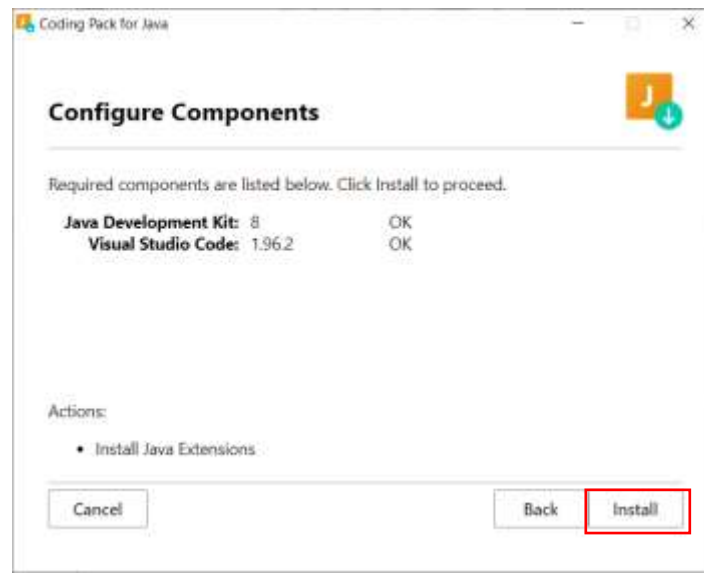


#### 4.4.4. Check I accept the terms in the License Agreement → click Next

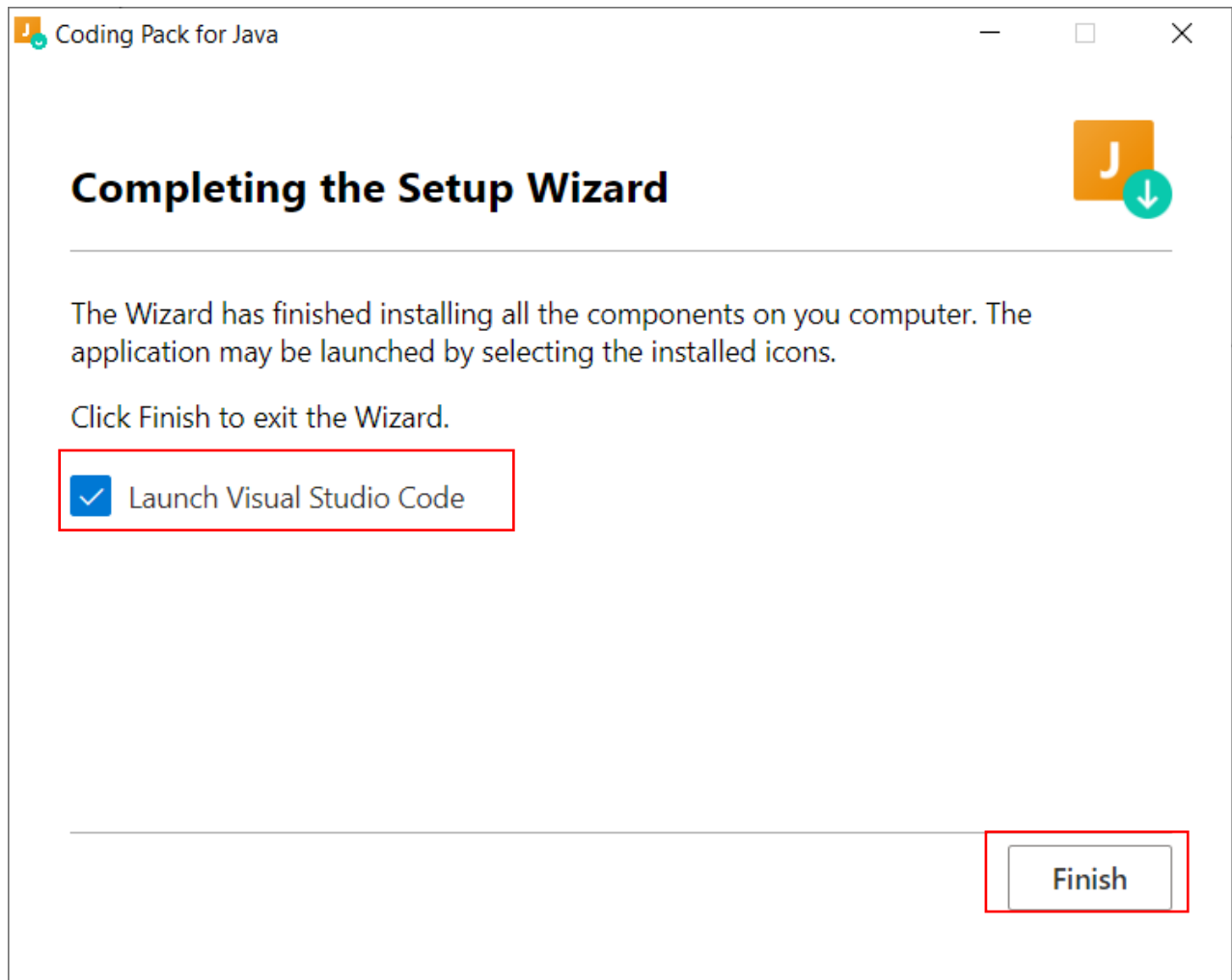


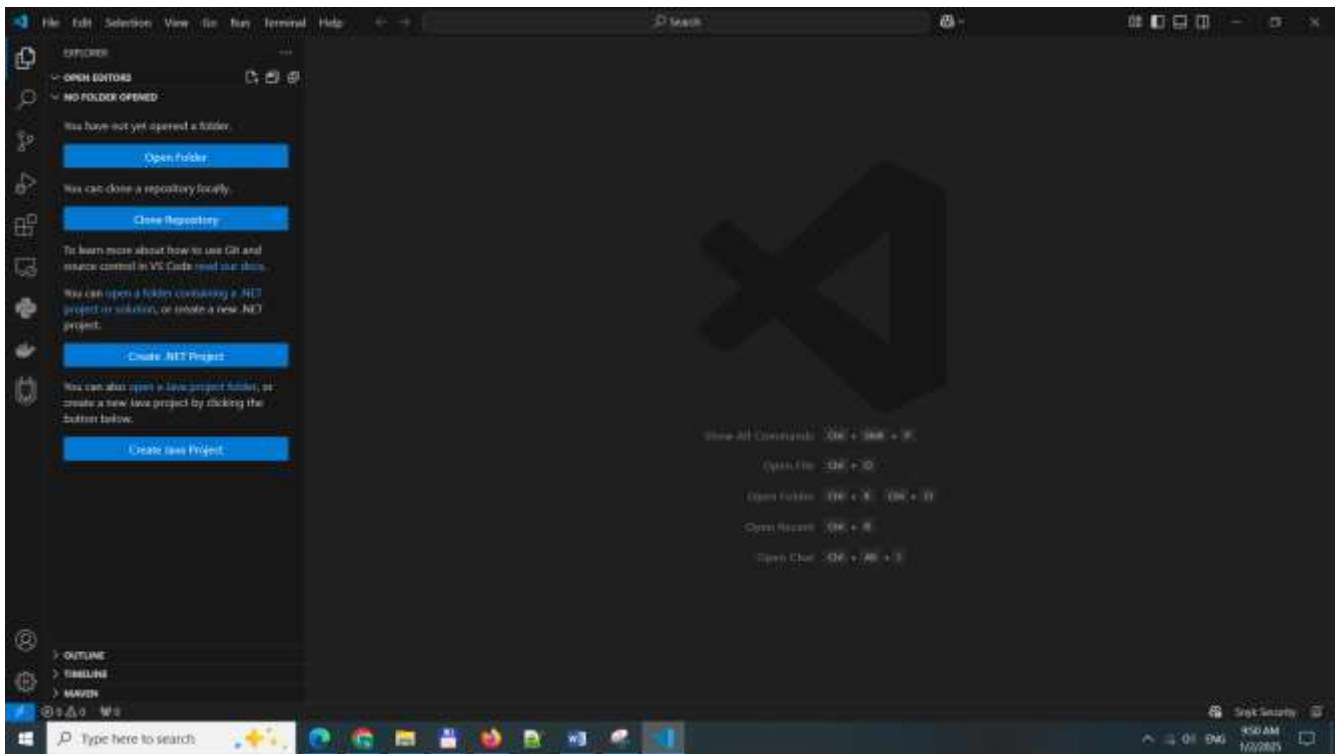


#### 4.4.5. Click **Install**.



#### 4.4.6. Check **Launch Visual Studio Code** → click **Finish**





4.4.7. We can **Open Folder** to open exist project or **Create Java project**

