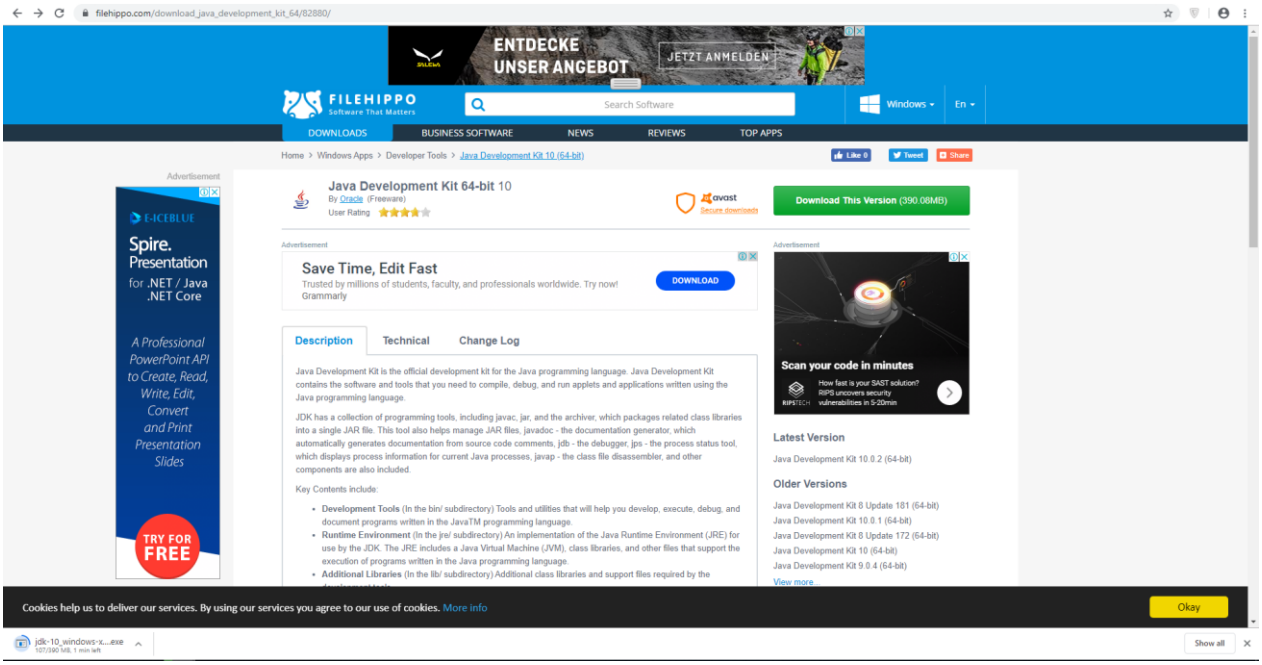
1. JAVA JDK INSTALLATION GUIDE

1.1 Downloading JDK 10.0.2(64bit)

- It is no longer supported by Oracle. So we have to download it from third party web sites.
- https://www.filehorse.com/download-java-development-kit-64/35914/
- https://filehippo.com/download_java_development_kit_64/82880/

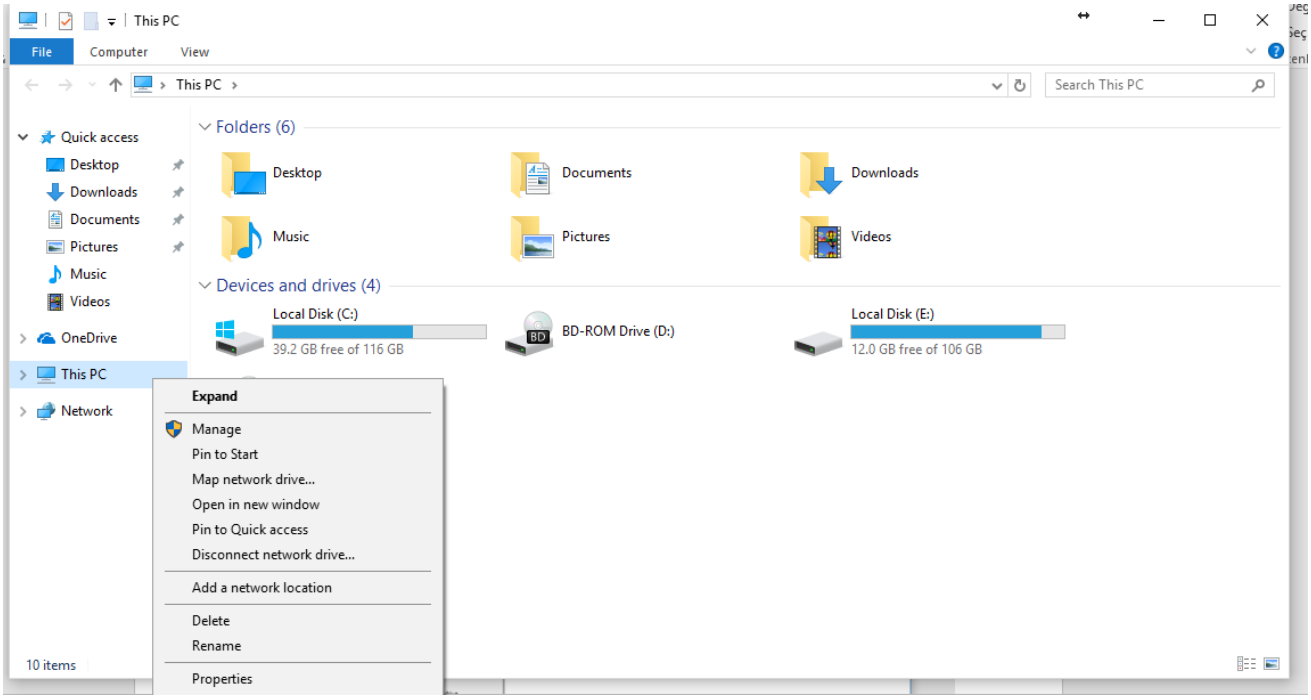


1.2 Installing JDK 10.0.2 on Windows

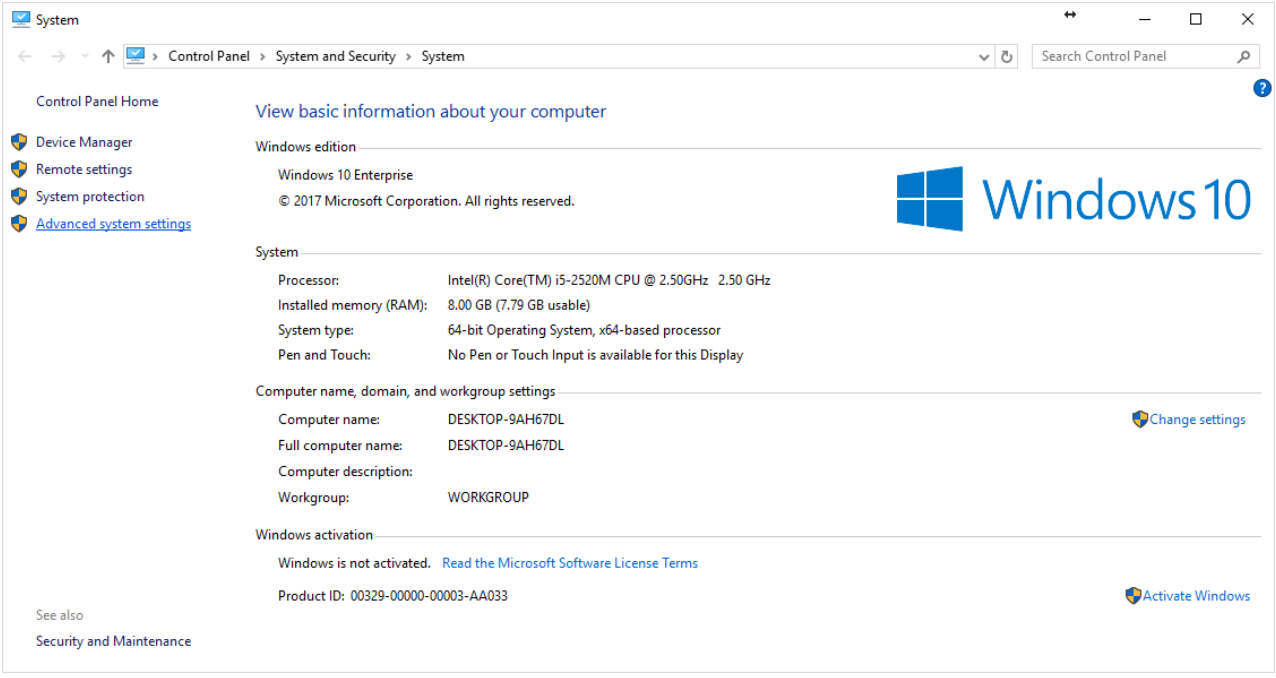
- Double click jdk-10.0.2_windows-x64_bin (in your download directory) to run the installation program. You will see the JDK Setup dialog displayed.
- Click Next to display the JDK Custom Setup dialog.
- You may install JDK in a custom directory. For simplicity, don't change the directory. Click Next to install JDK.
- After installation completed, the Complete dialog is displayed. Click Finish to close the dialog.

1.3 Configuring JDK on Windows

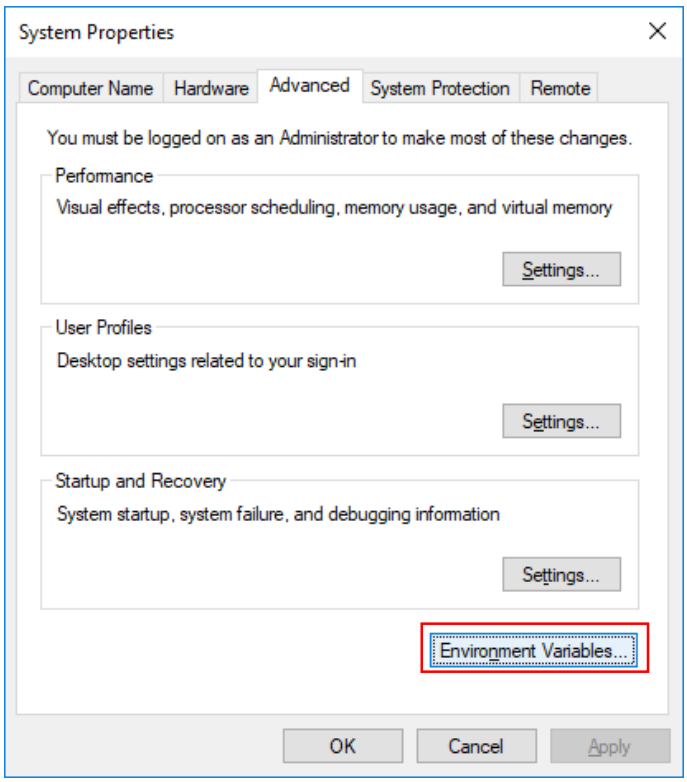
- After installation you should configure JDK to make it available in the operating system.
- Please follow these steps to configure JDK.
- Right click This PC icon.
- Choose Properties from the context menu.



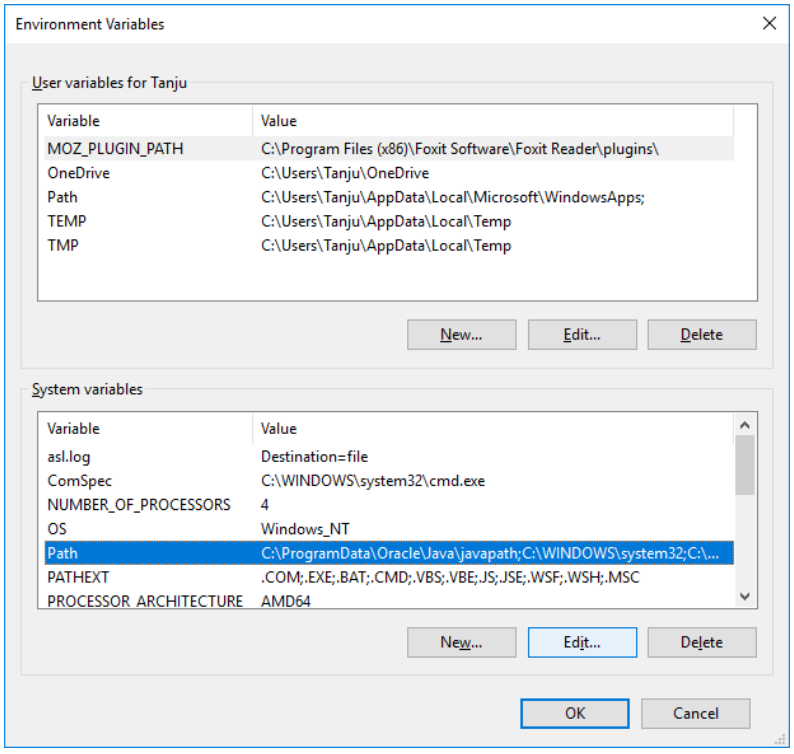
- Click Advanced system settings to open the System Properties window.



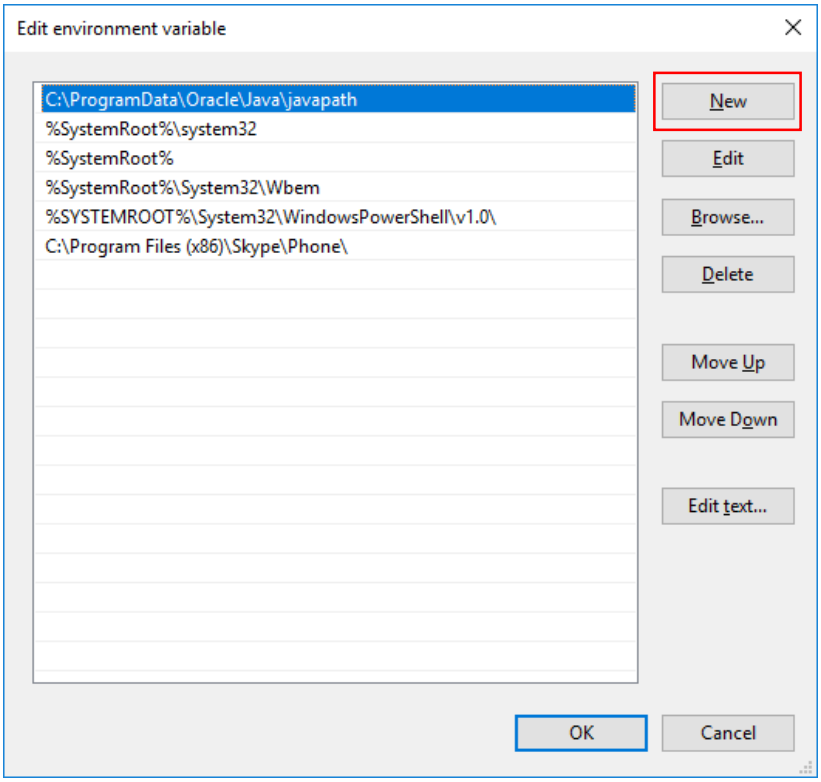
- In the System properties window, click Environment Variables in the Advanced tab to display the Environment Variables window.



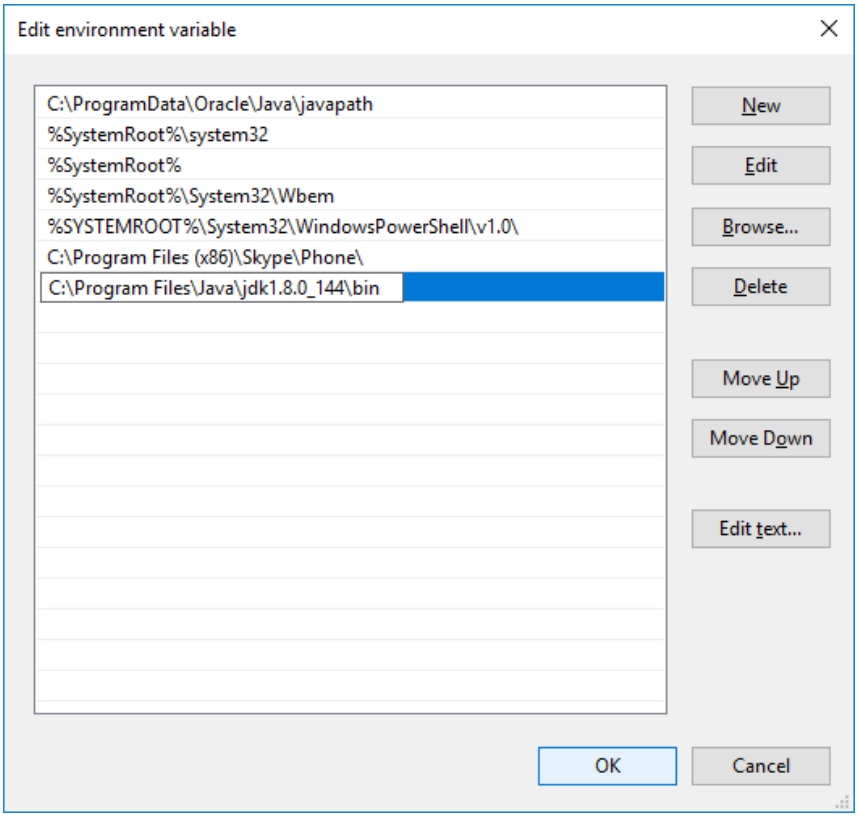
- In the System variables section, select Path and click Edit.



- In Edit environment variable window, click New button.

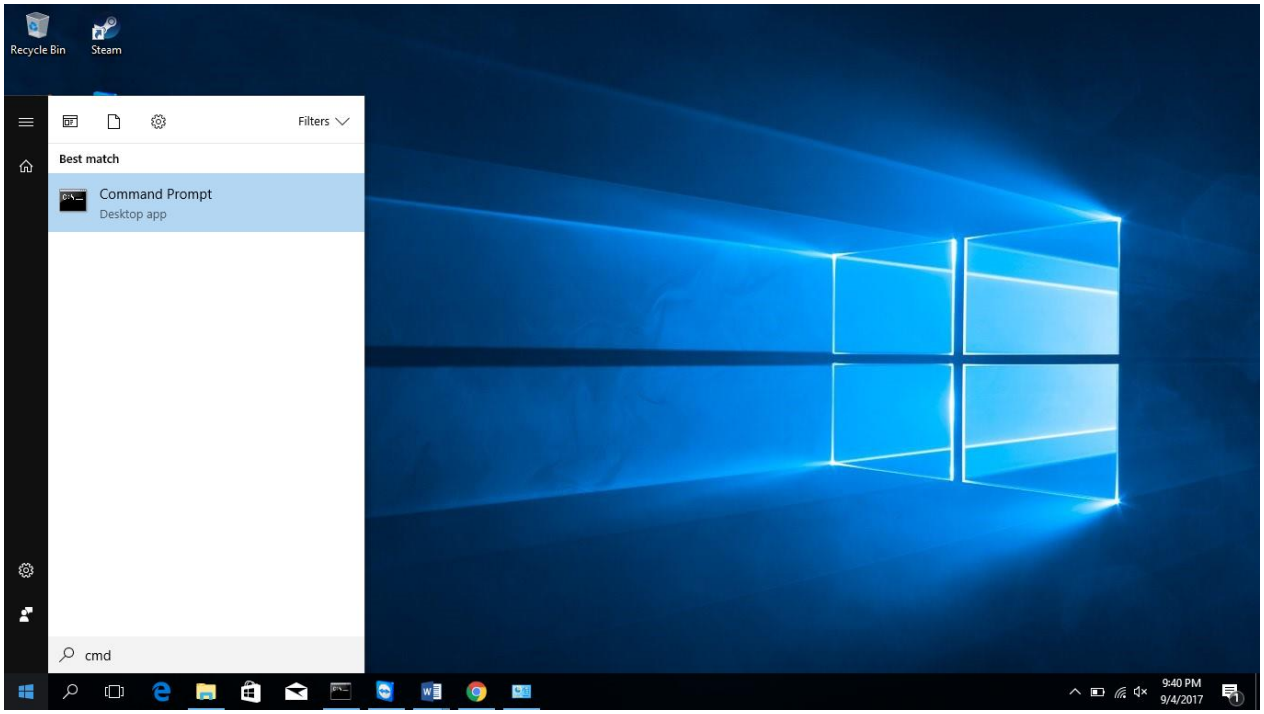


- Paste the file directory of JAVA JDK (C:\Program Files\Java\jdk1.8.0_144\bin), then click the OK button.

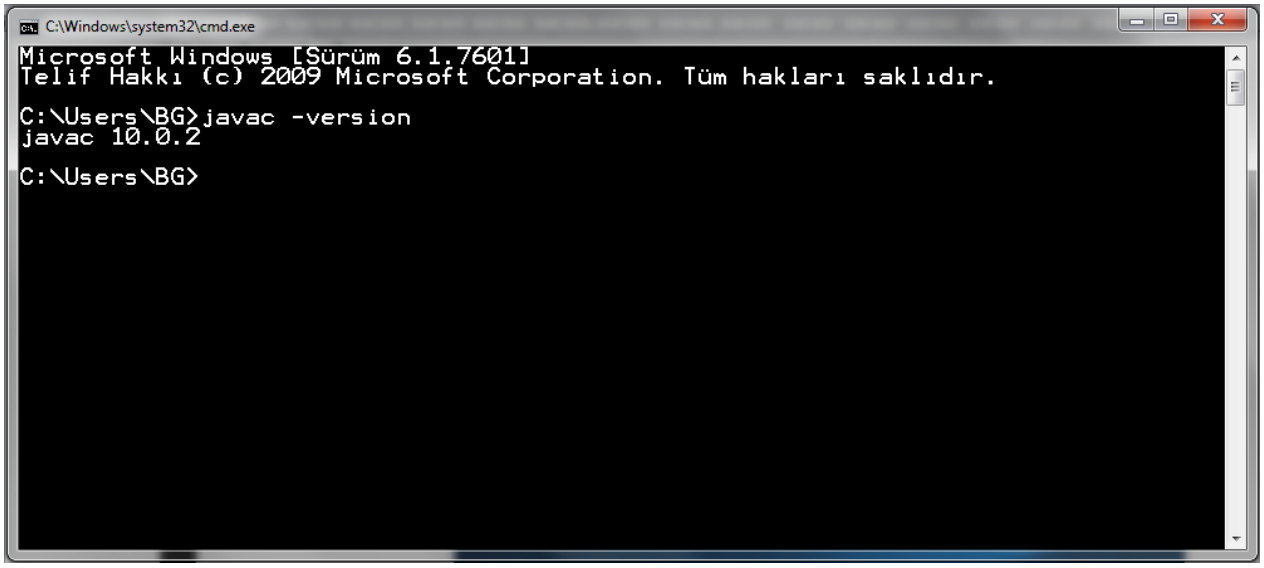


1.4 Verifying Configurations

- To verify whether JDK is configured correctly, type cmd to search button



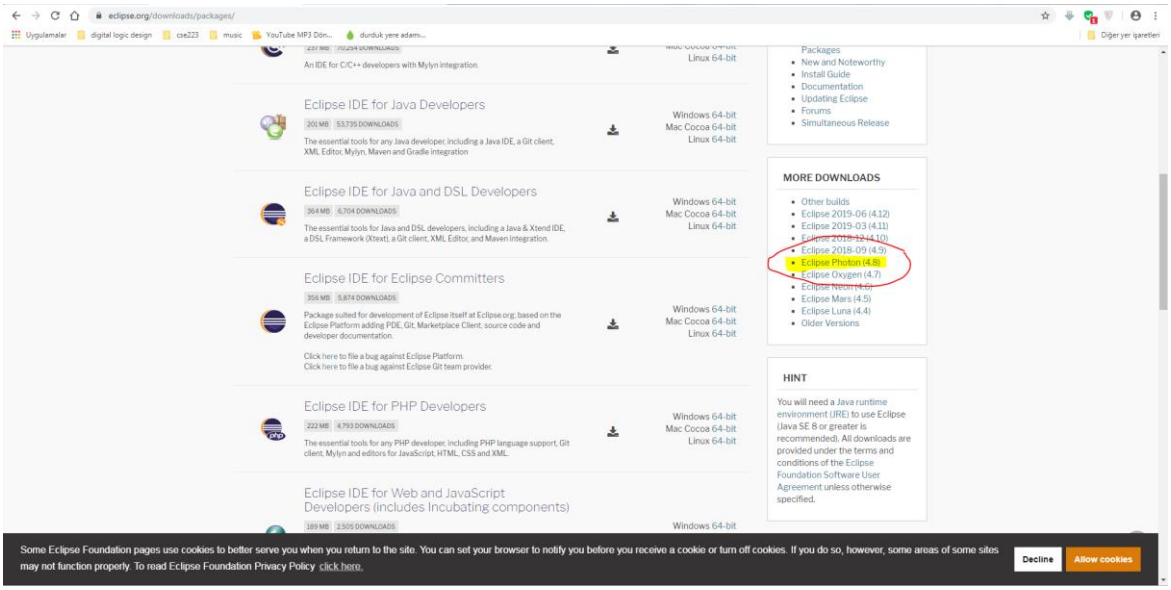
- Type javac –version from the command prompt. If you do not get any error your installation is successfully done otherwise check your steps again.



2. ECLIPSE IDE INSTALLATION GUIDE

2.1 Installation

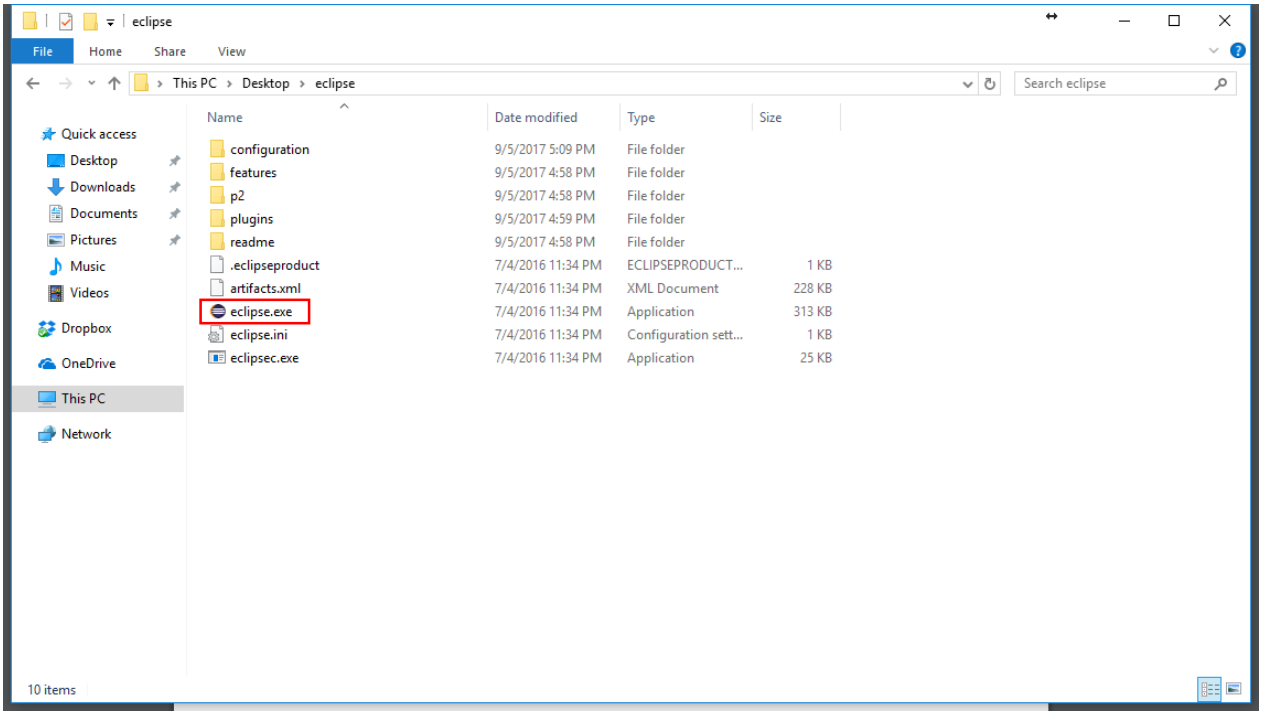
- Download and install Eclipse Photon 4.8. To ensure that you can run JavaFX properly, download Eclipse from
  https://www.eclipse.org/downloads/packages/



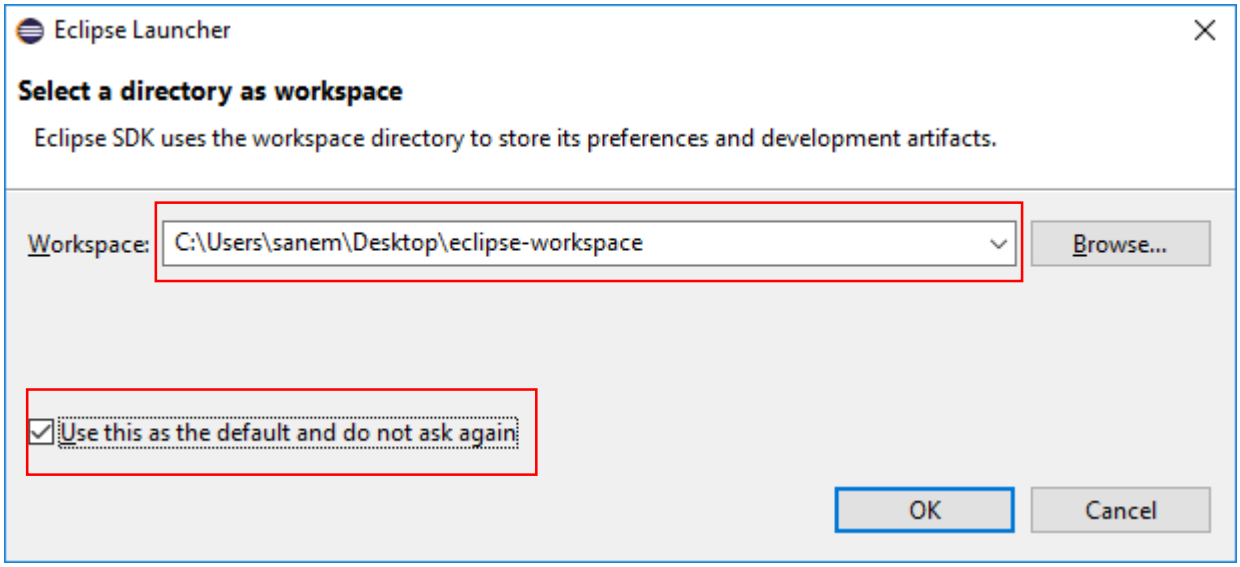
- Just extract zip file and double click application file and use.

2.2 Getting Started with Eclipse

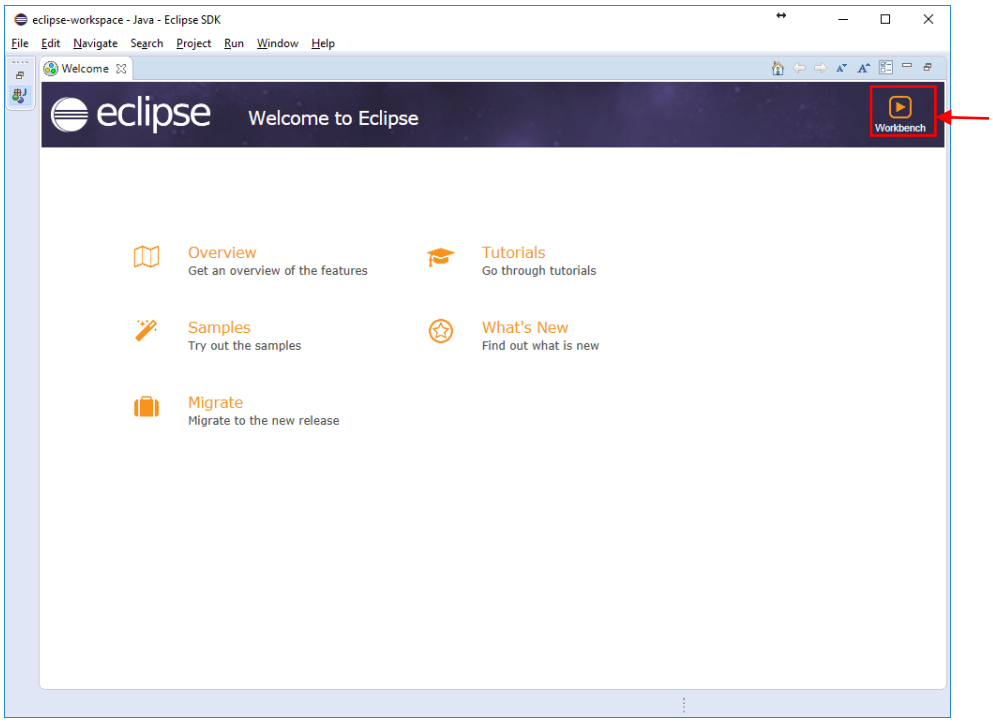
- Assume that you have installed Eclipse files in C:\Users\sanem\Desktop\eclipse.
- To start Eclipse, double-click on the eclipse.exe in the C:\Users\sanem\Desktop\eclipse folder.



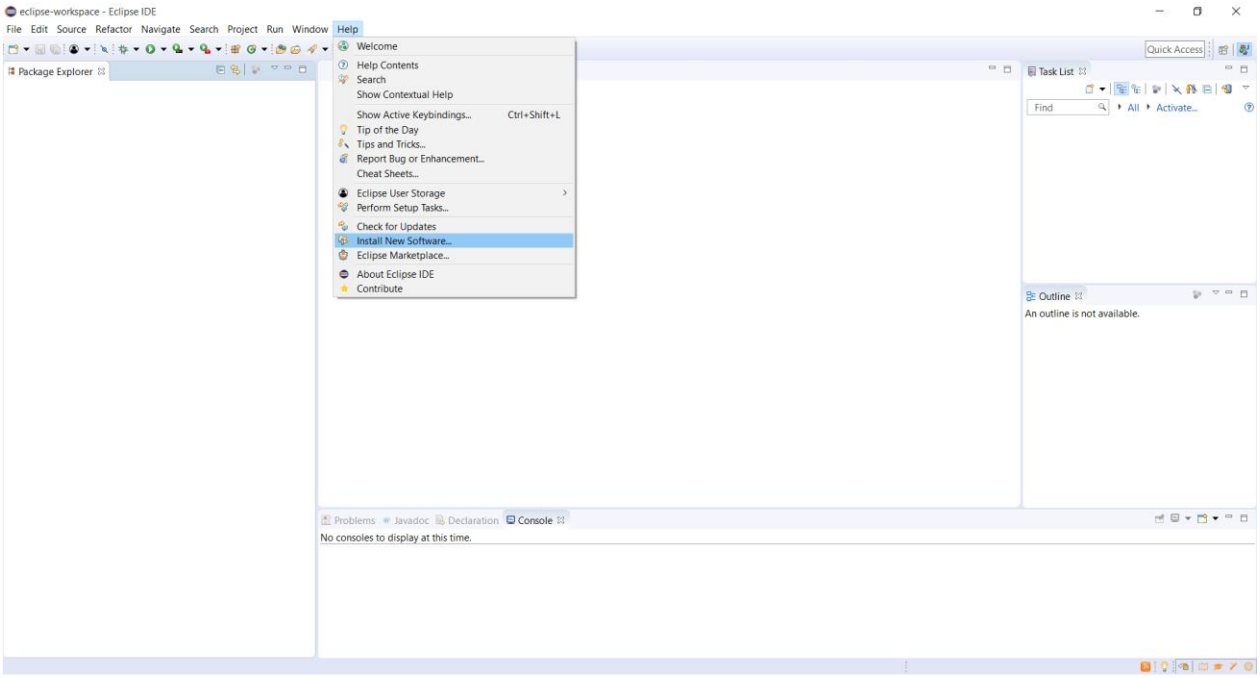
- The Workspace Launcher window now appears.
- Enter C:\users\sanem\Desktop\eclipse-workspace in the Workspace field and click OK.
- Workspace is actually a directory that stores your project files. I set the workspace folder as C:\users\sanem\Desktop\eclipse-workspace. You can change your own workspace directory.
- If the workspace already contains projects, the projects will be displayed in the left part.
- I also select the option “Use this as the default and do not ask again”.



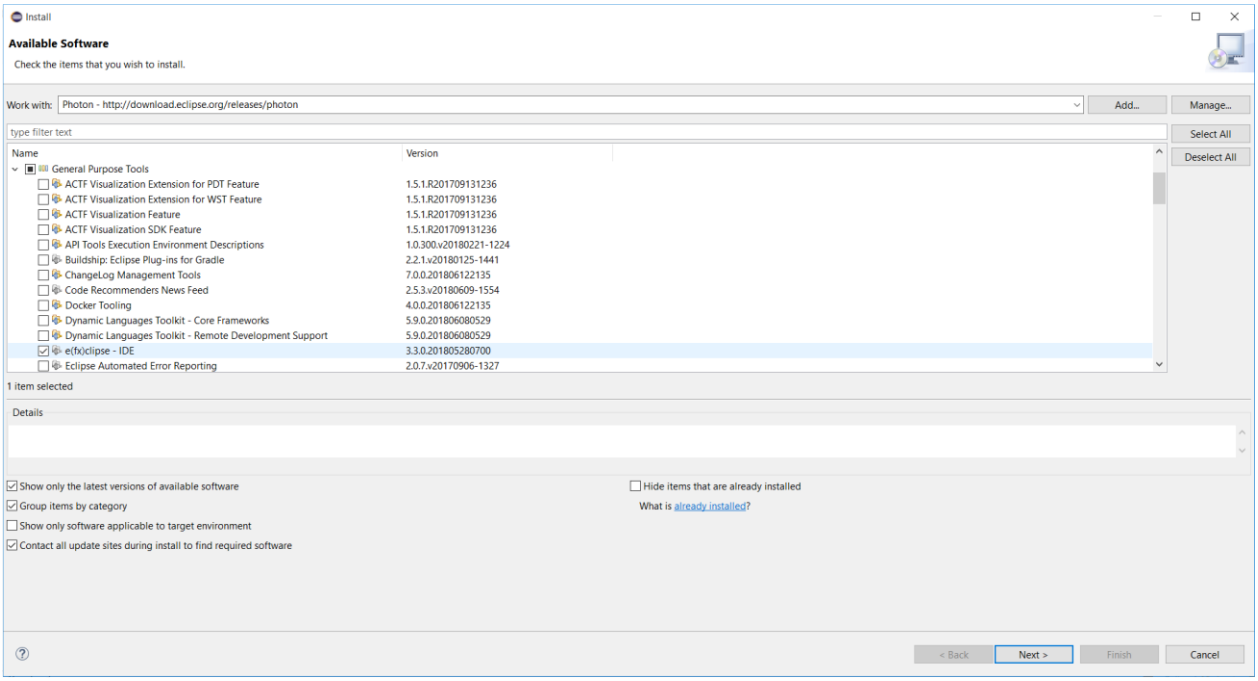
- Then you can click Workbench button to launch Java perspective.



- Click on Help button and select Install New Software option.

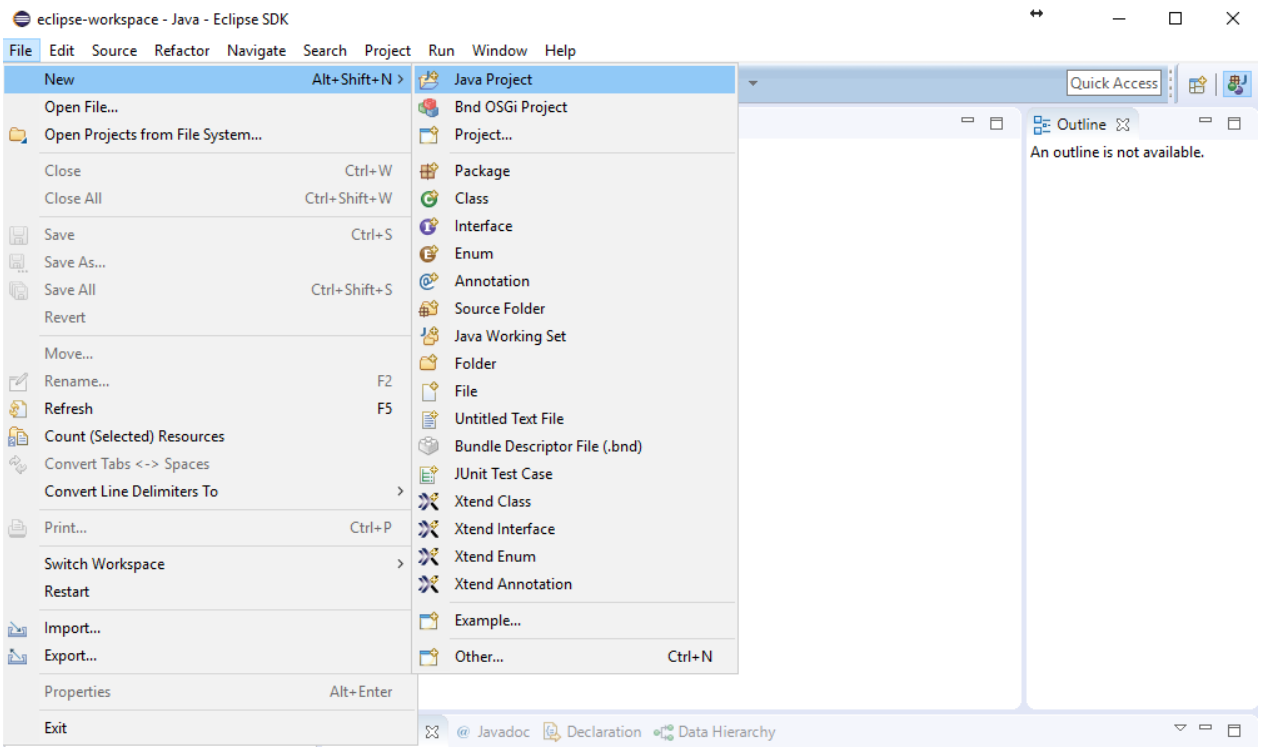


- Select Photon – http://download.eclipse.org/releases/photon as the site. Click on General Purpose Tools option and select e(fx)clipse – IDE and accept License Agreement(s).

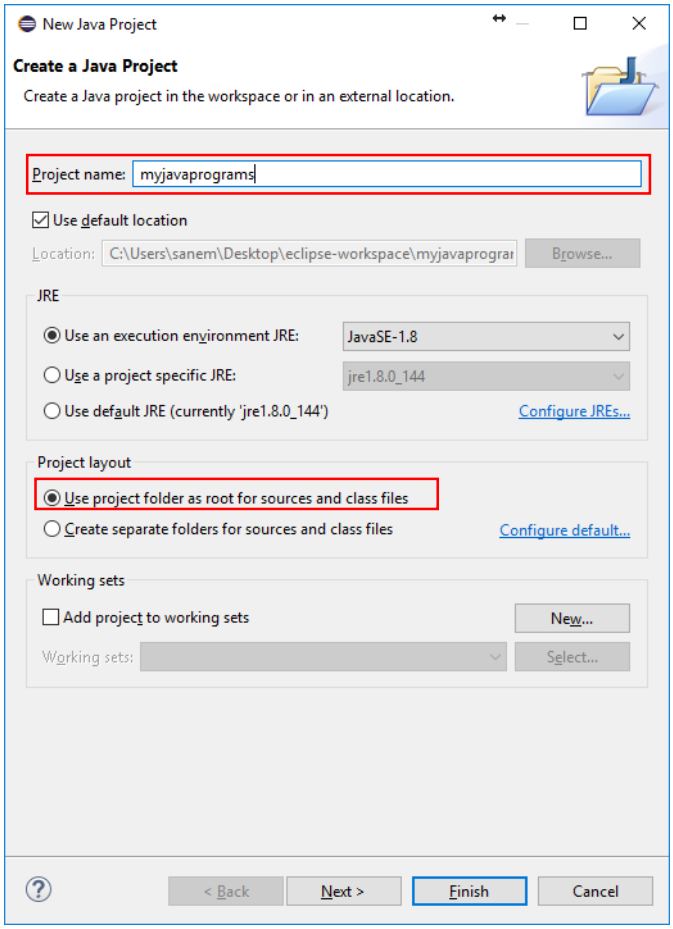


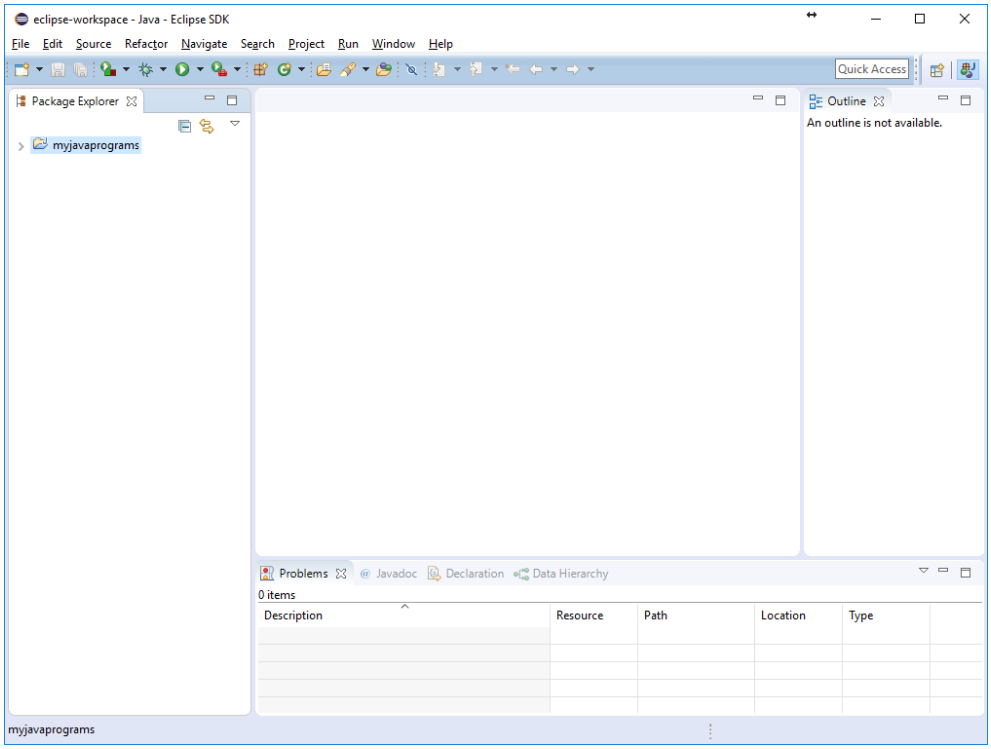
2.3 Creating a Project

- To create a project, choose File, New, Java Project to display the New Project wizard.



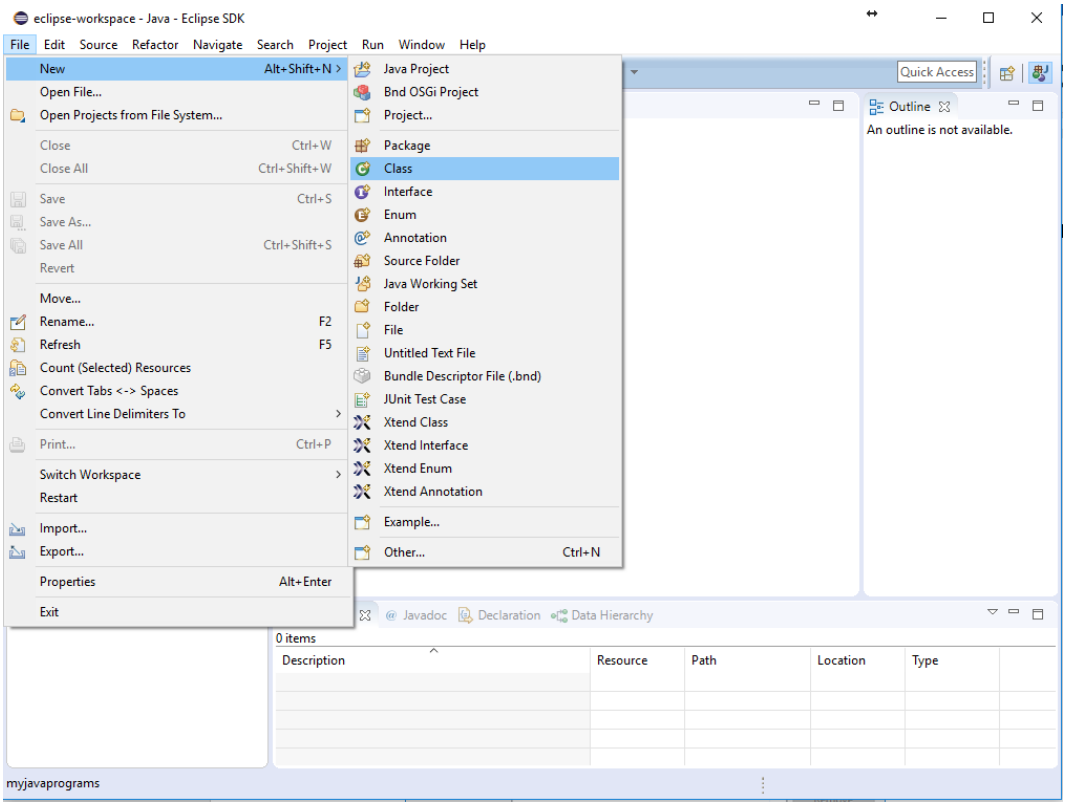
- Type *myjavaprograms* in the Project name field. As you type, the Directory field becomes C:\Users\sanem\Desktop\eclipse-workspace\myjavaprograms.
- Make sure that you selected the option “Use project folder as root for sources and class files”.
- Click Finish to create the project.





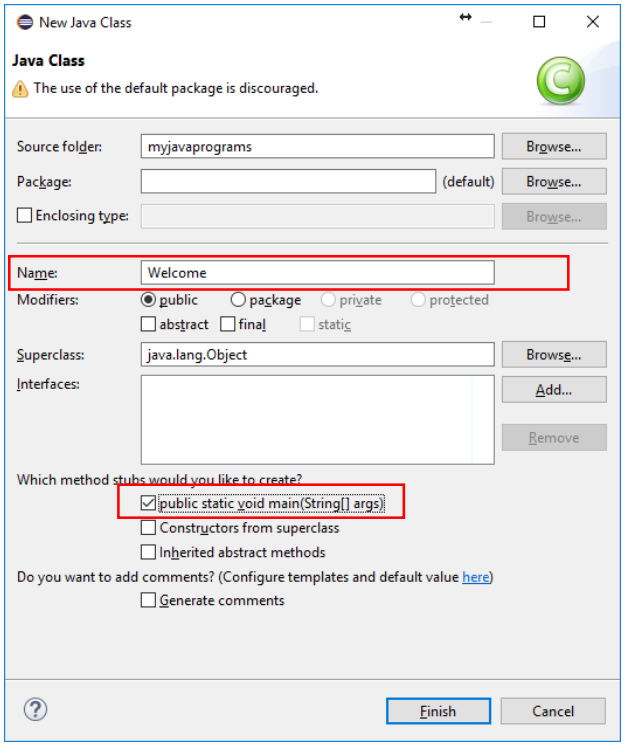
2.4 Creating a Program

- Now you can create a program in the project by choosing File, New, Class to display the New Java Class wizard.

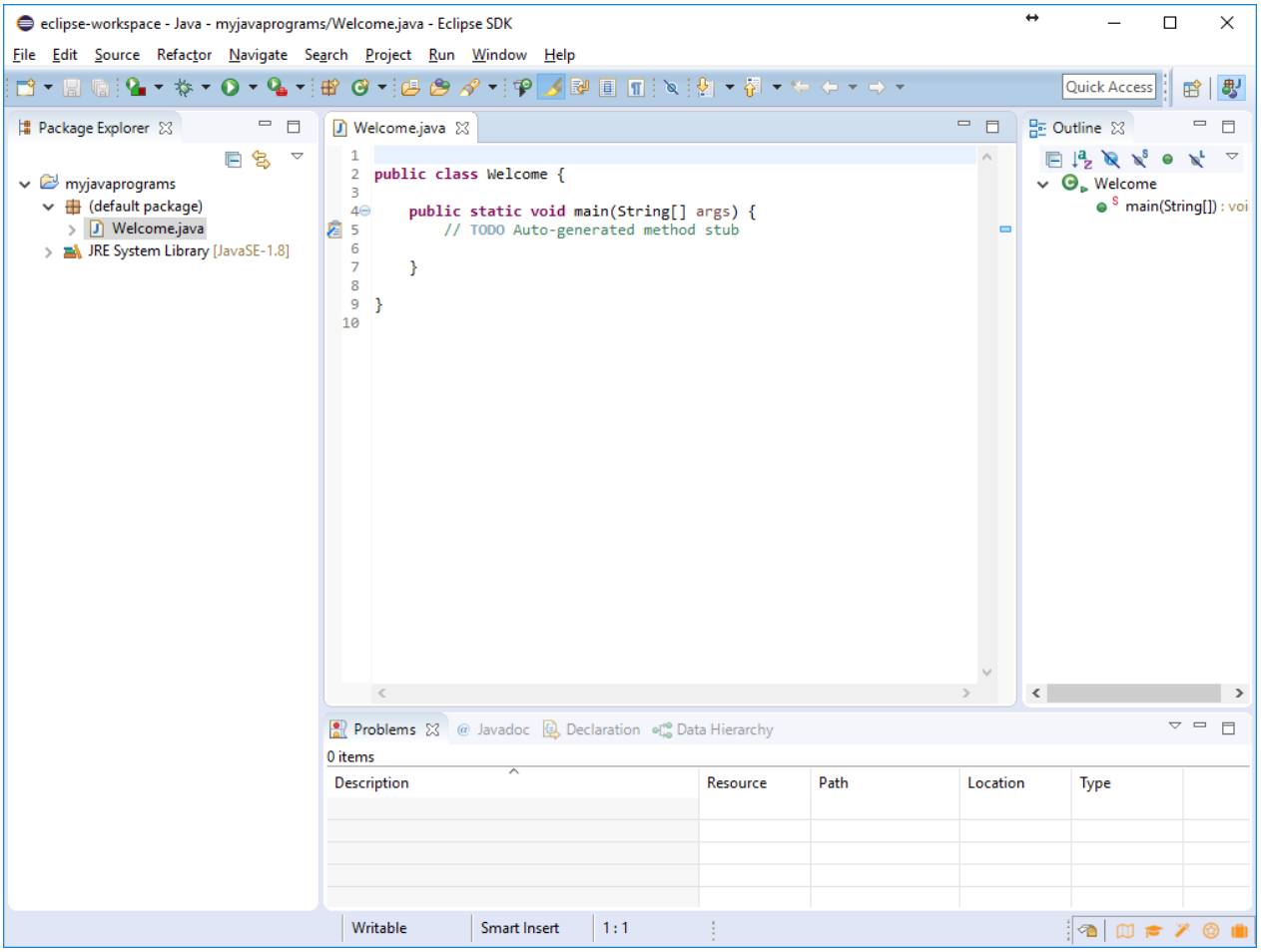


- Type *Welcome* in the Name field.
- Check the option public static void main(String[] args).

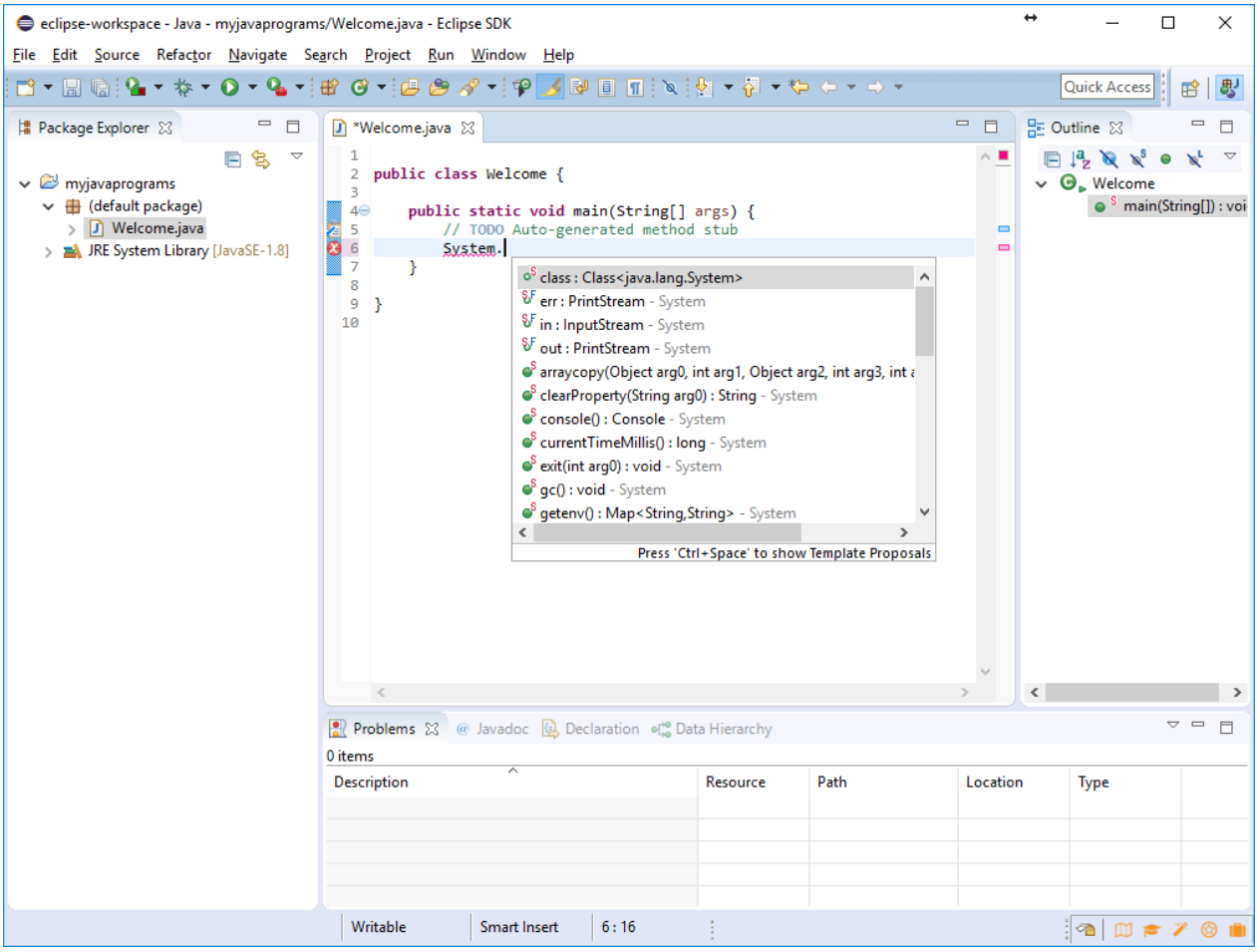
- Click Finish to generate the template for the source code Welcome.java



- This is the template for the source code Welcome.java



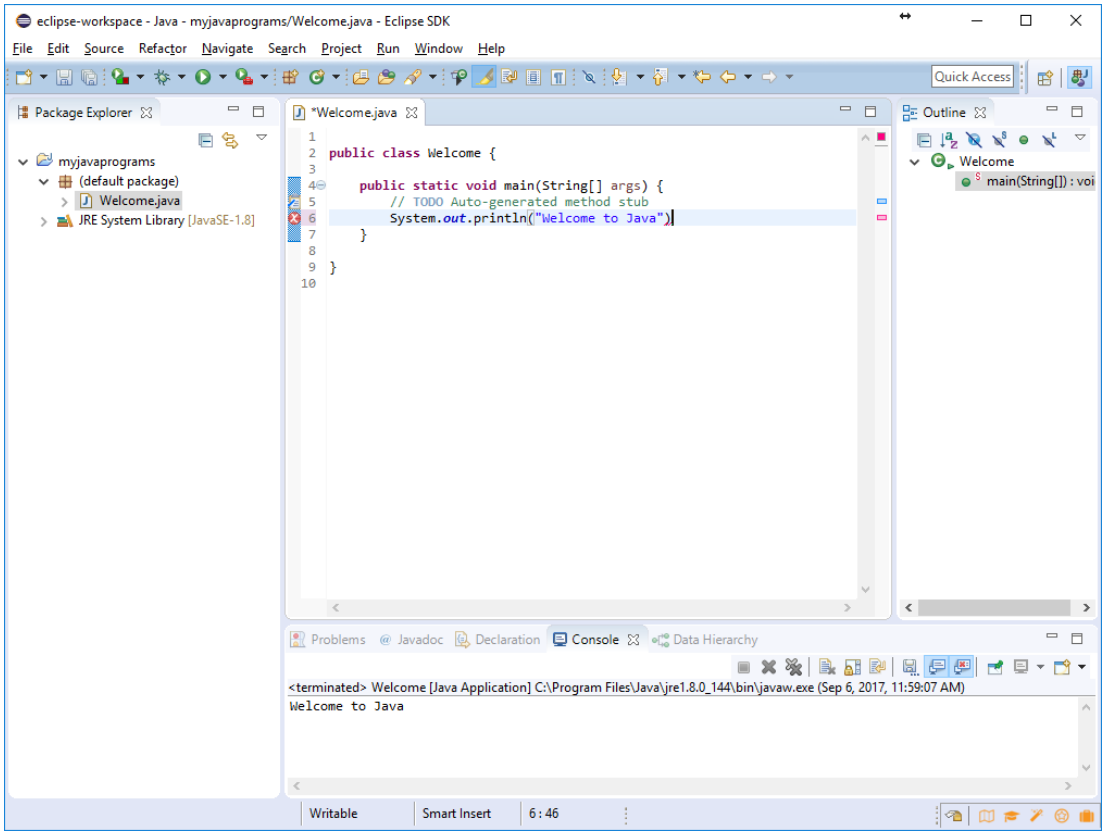
- Type *System.out.println("Welcome to Java");* in the main method.



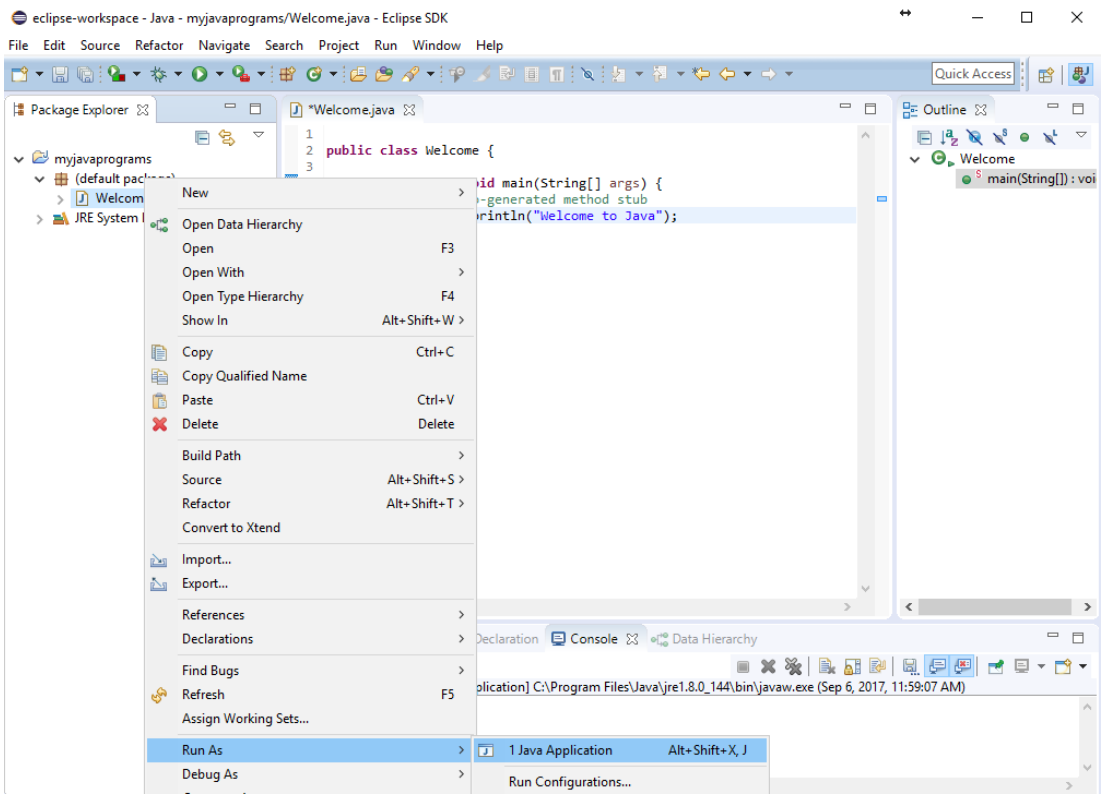
NOTE: As you type, the code completion assistance may automatically come up to give you suggestions for completing the code. For instance, when you type a dot (.) after System and pause for a second, Eclipse displays a popup menu with suggestions to complete the code, as shown in figure above. You can then select the appropriate item from the menu to complete the code.

2.5 Compiling and Running a Program

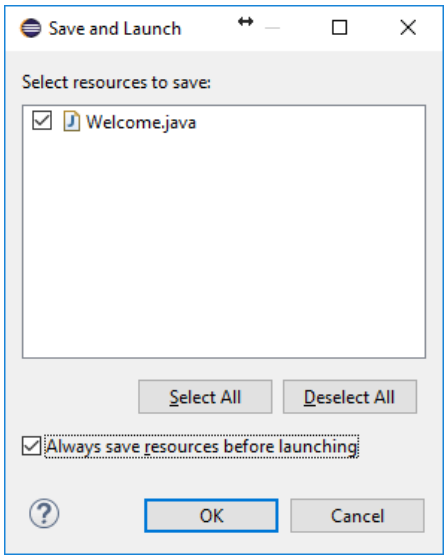
- By default, your source code is dynamically compiled as you type. For example, if you forgot to type the semicolon (;) to end the statement, as shown in figure below, you will see the red wriggly line in the editor pointing to the error.



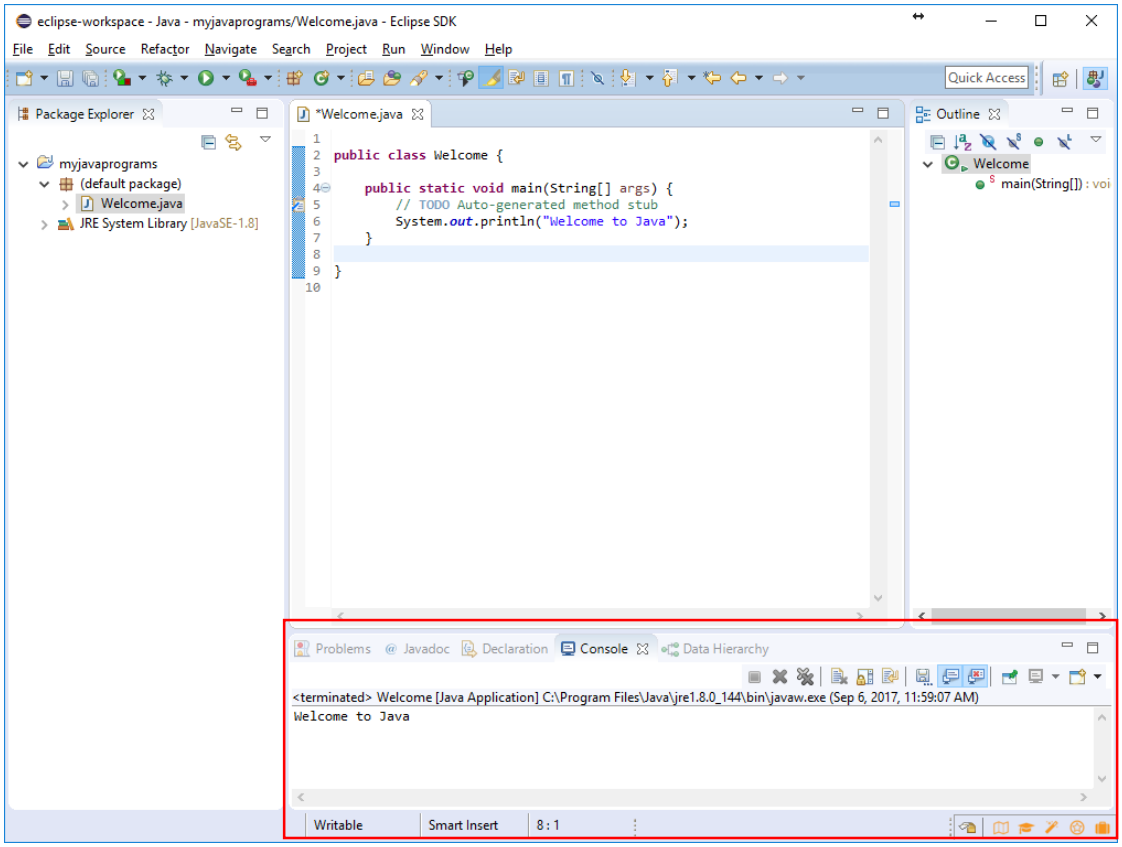
- To run the program, right-click the class in the project to display a context menu.
- Choose Run, Java Application in the context menu to run the class.



- Before running your program, “Save and Launch” window will appear. You may select the option “Always save resources before launching”.

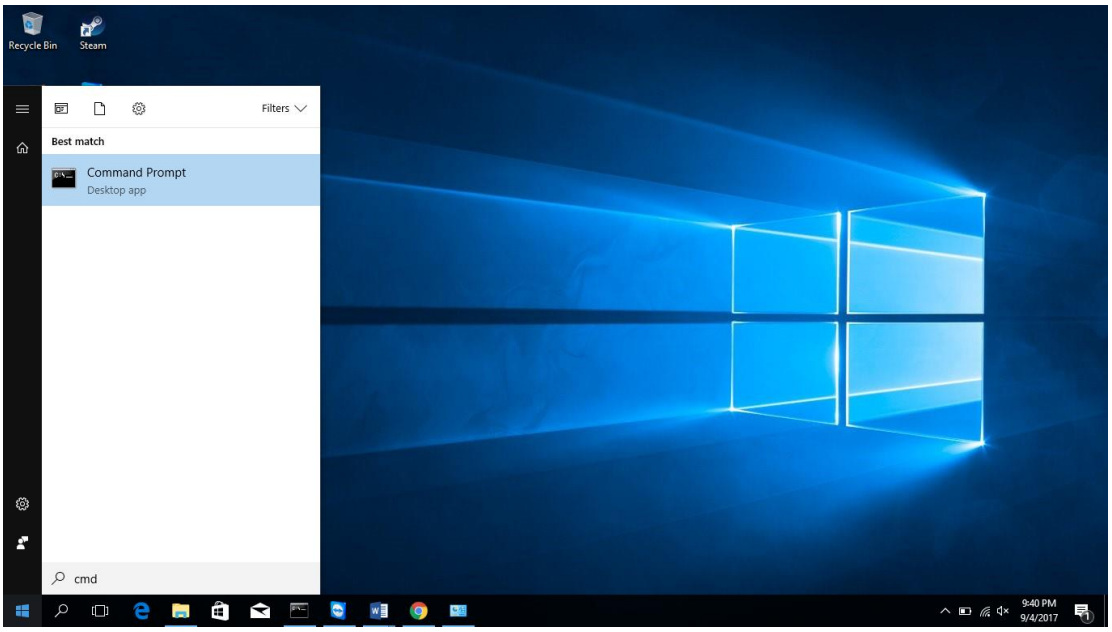


- Then, the output is displayed in the Console pane.



2.6 Run Java Applications from the Command Line

- You also can run program standalone directly from the operating system. Here are the steps in running the Welcome application from the DOS prompt.
- Start a DOS window by entering cmd to search button in Windows.



- Type cd Desktop\eclipse-workspace\myjavapromgrams to change the directory to Desktop\eclipse-workspace\myjavapromgrams.
- Type **javac Welcome.java** to compile your code.
- Type **java Welcome** to run your code.