Development tools to compile and run Java program

Install Java JDK (Option 1 & 2 below will need Java JDK to be pre-installed)

Download and Install JDK

1. Go to https://www.oracle.com/java/technologies/javase-downloads.html, download the Java JDK

2. As of March 2020 the latest release is version 14, any older version greater than version 6 is ok to be used.
3. Run the installer and follow through the steps to install the JDK. [Please note down the installation path, you will need to refer if you are compiling Java program in command prompt]
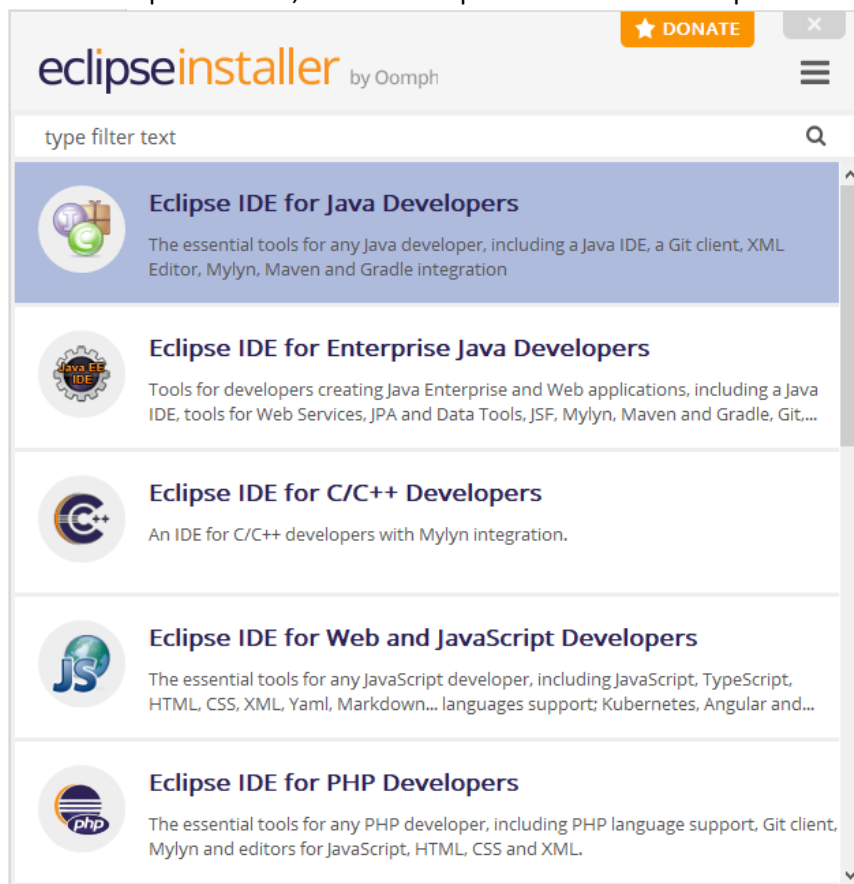
Option 1: Eclipse

Download and Install Eclipse

1. Go to https://www.eclipse.org/downloads/ download the latest Eclipse IDE

2. Run the eclipse installer, choose the option to install the 'Eclipse IDE for Java Developers'
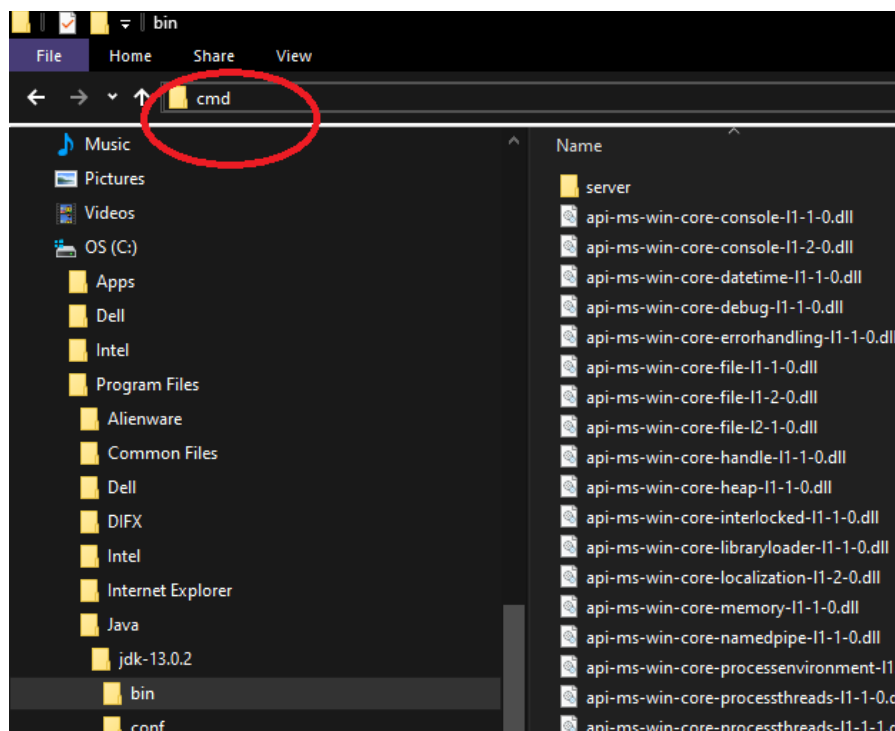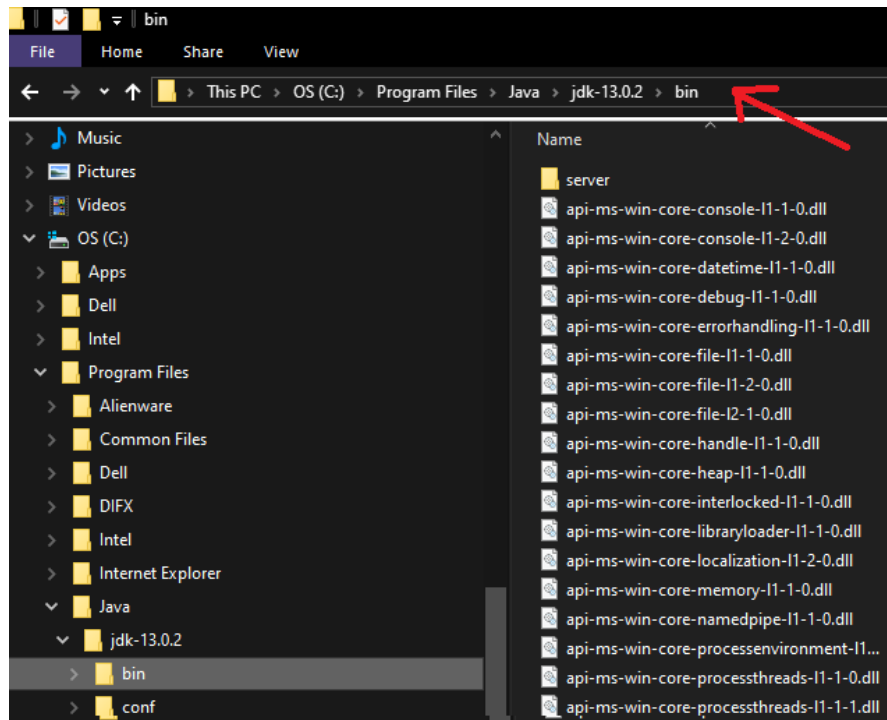

3. Follow through the steps to install the Eclipse.
4. To create a project in Eclipse, refer to the 'How to create project using Eclipse' documentation which I've published in eLearn.
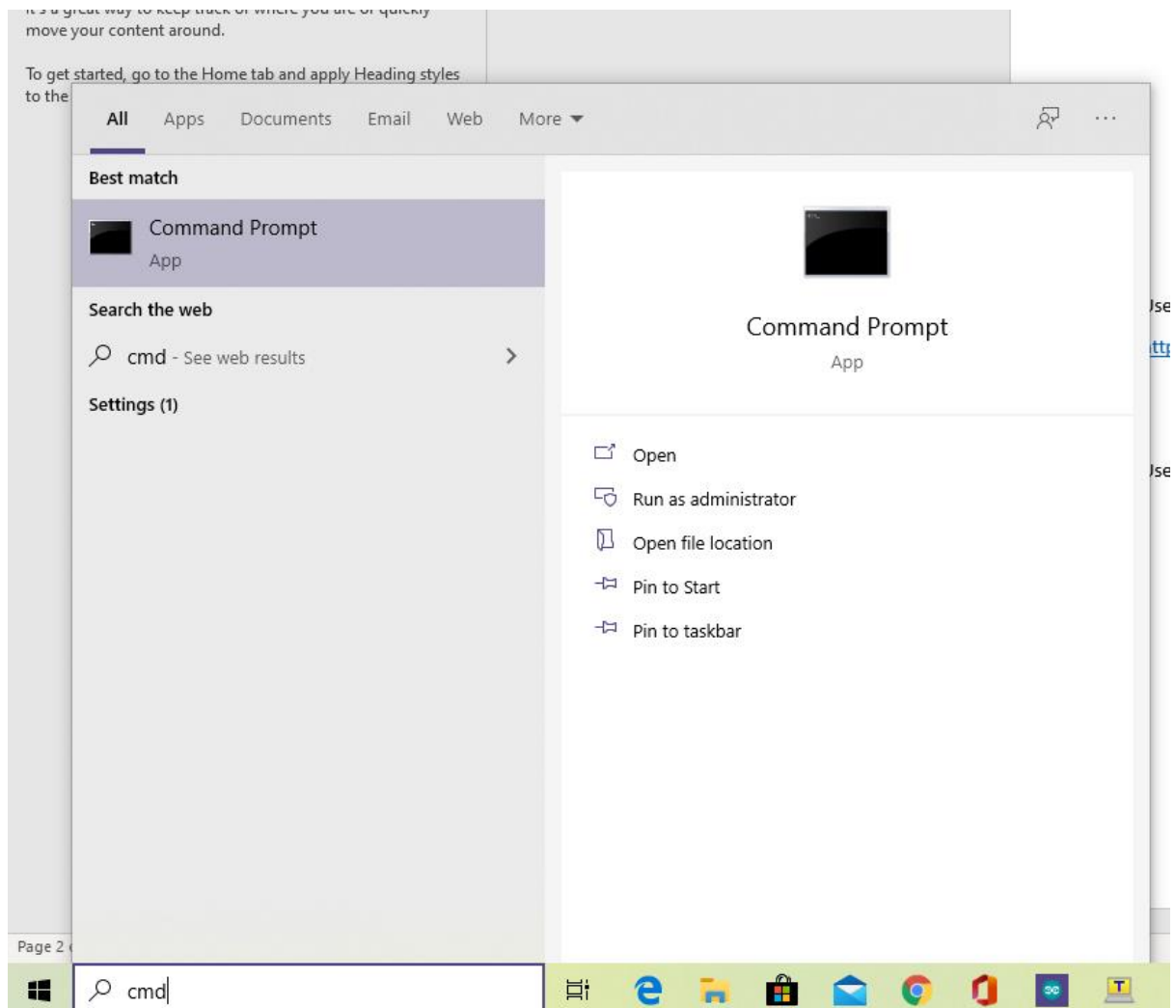
Option 2: Command Prompt

1. Create the java program using any text editor (e.g. notepad++), then save the file as HelloWorld.java in the JDK bin folder (for e.g. C:\Program Files\Java\jdk-13.0.2\bin).

   Next, you have two options to go to the command prompt, procced to Step 2 or Step 3.

2. Open the File Explorer, navigate to the JDK bin folder, and click on the address bar and type 'cmd'. Then proceed to step 4.

3. Start the windows command prompt.
   How? Type 'cmd' at the windows search bar and press enter

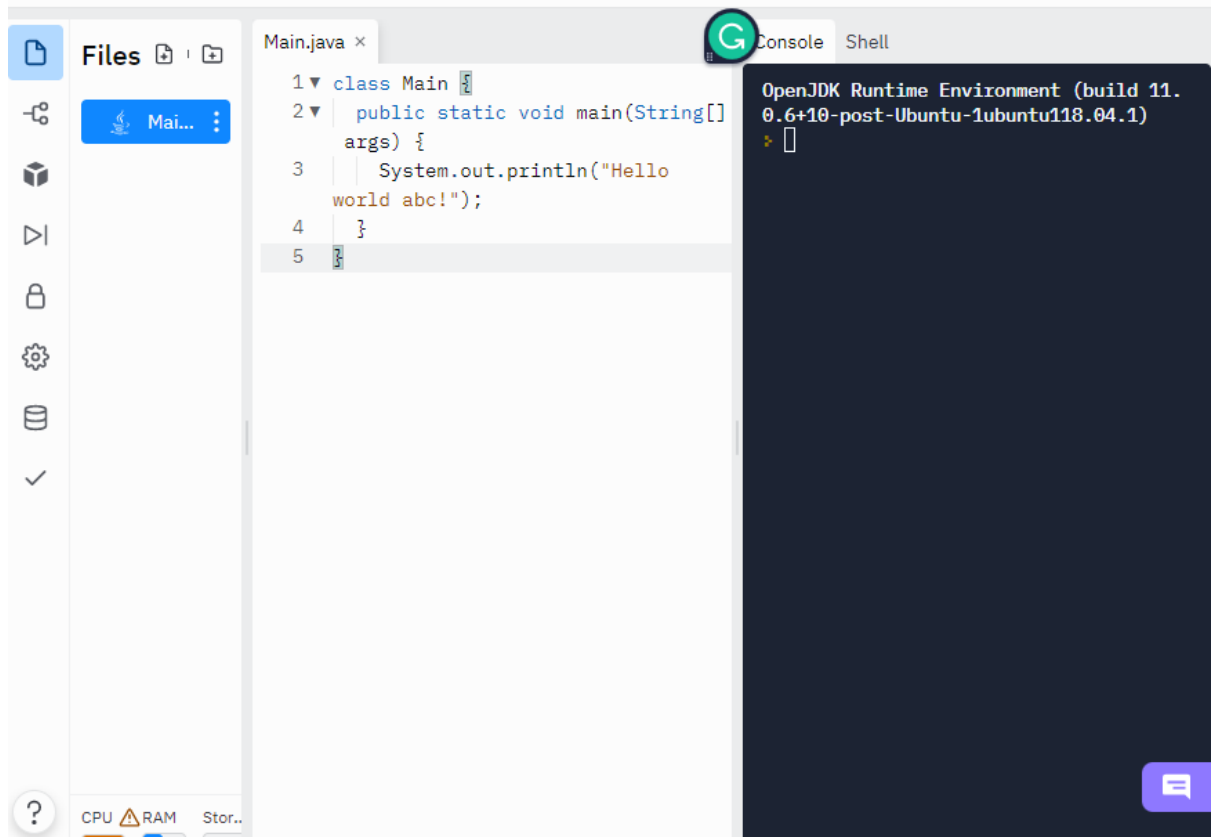Then change directory to your Java JDK installation bin folder, e.g.
   ➤ cd C:\Program Files\Java\jdk-13.0.2\bin

4. You can now compile your program using the java compiler command as below:
   ➤ javac HelloWorld.java

5. If it's successfully compiled, you can run your java program using java command as below:
   ➤ java HelloWorld

Note: You will see the error messages if your java program has error and can't be compiled, you will need to check your code, fix the error and save it before repeating step 4.

Option 3: Online IDE

Repl.it (https://replit.com/)

OR

Codiva.io (https://www.codiva.io/)