Java

Enroll: 186170316556

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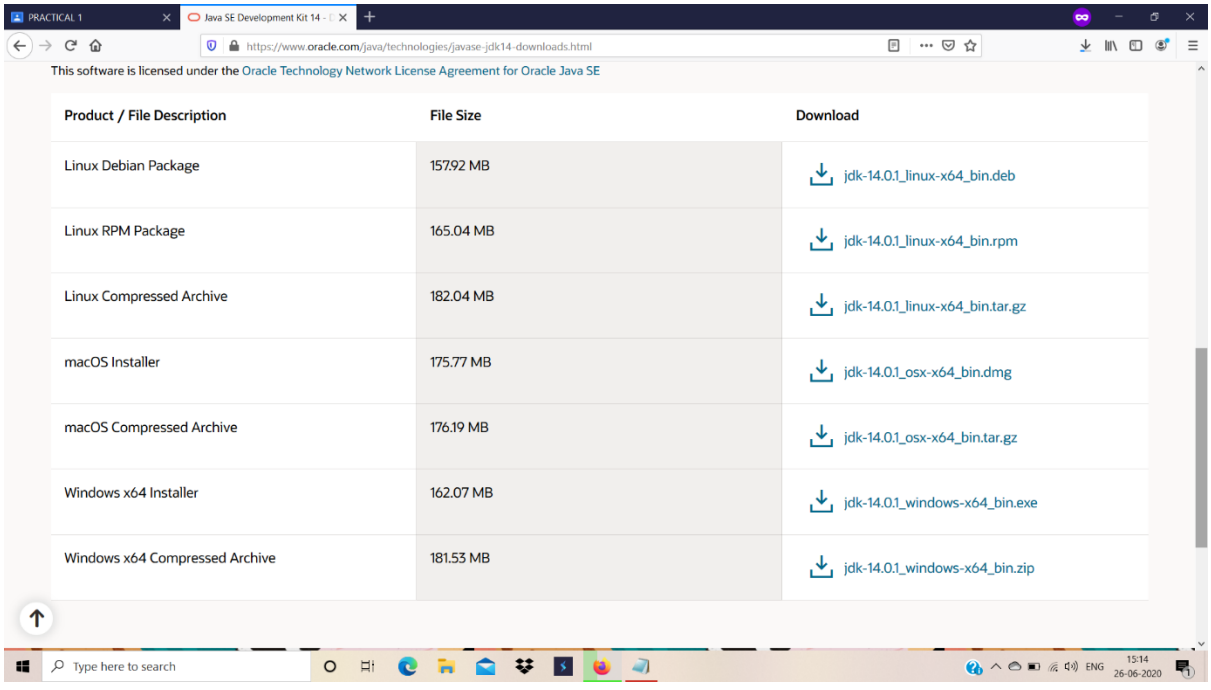
Batch: Evening

Practical: 1

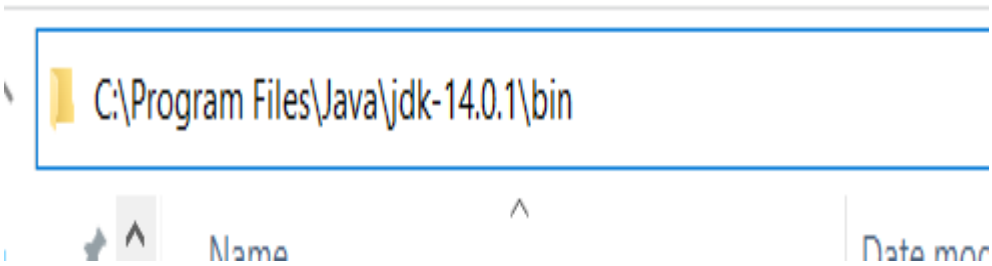
Aim: Install JDK, write a simple “Hello World” or similar java program, compilation, debugging, executing using java compiler and interpreter.

Step 1: Go to java’s official site: https://www.oracle.com/java/technologies/javase-downloads.html and download JDK according to your operating system.

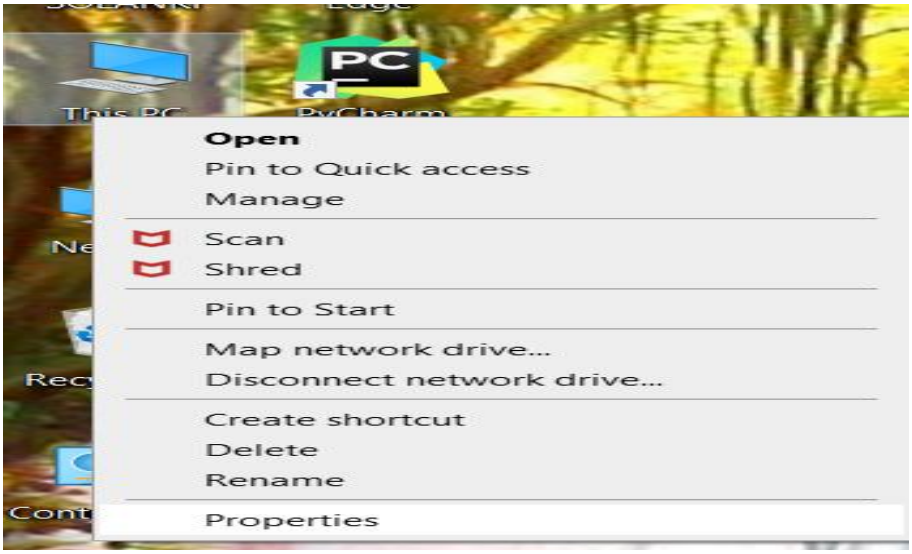


Step 2: When the installer is installed then simply run the installation setup by double clicking it. Complete the setup to install Java. Setup will take some time and it will install java on your pc.

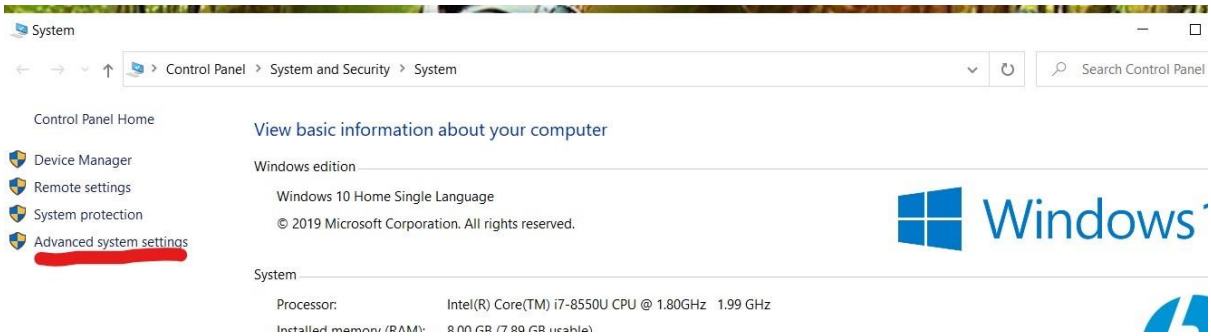
Step 3: Navigate to the 'bin' folder where your java is installed. By default, java is installed in C:\Program Files\Java\jdk-14.0.1\bin copy this file path.



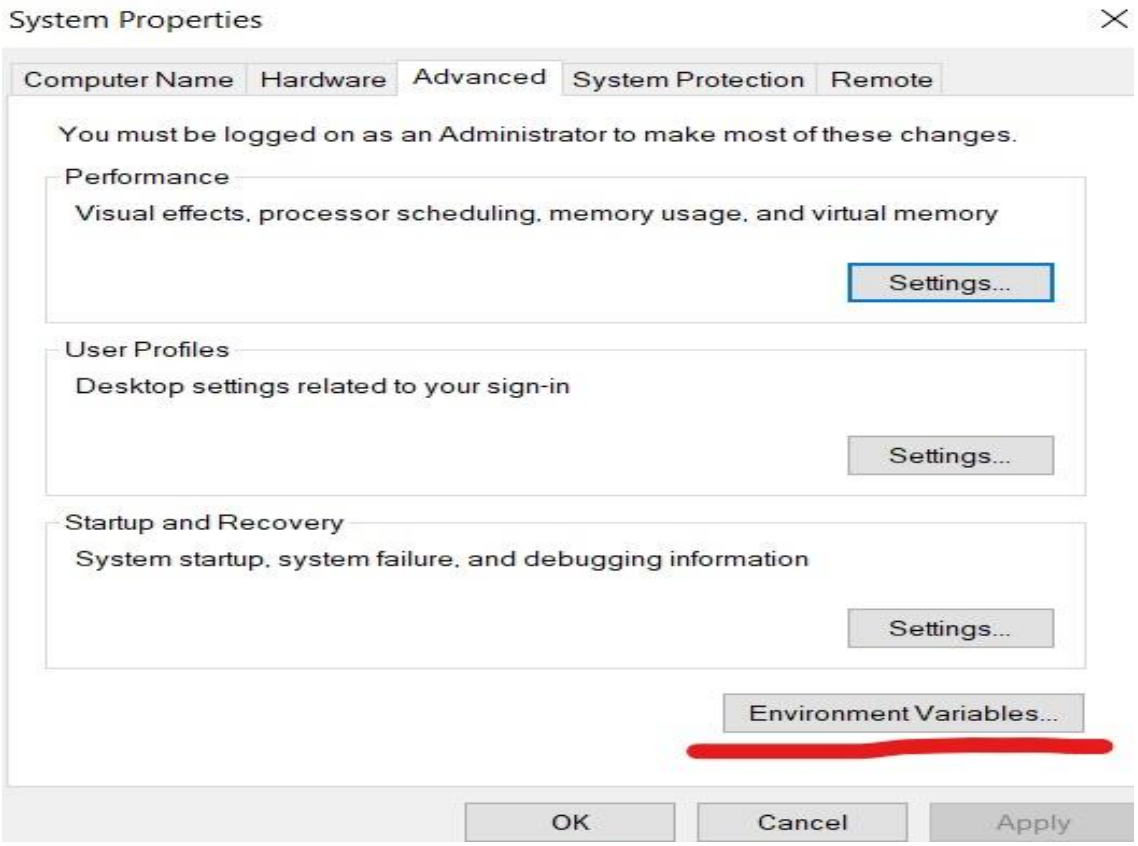
Step 4: After the setup is completed. We need to set path for java. For that we need right click “This PC” and open “Properties”



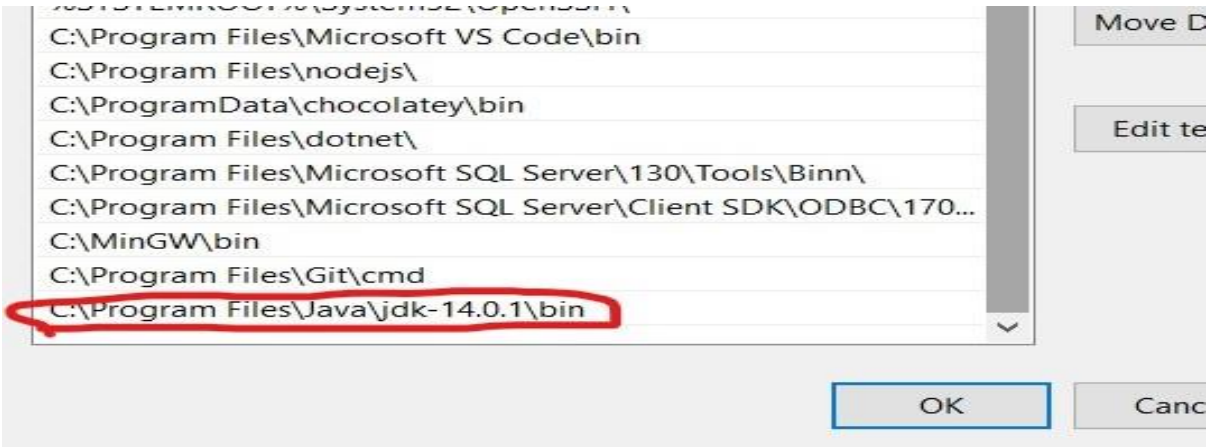
Step 5: Clicking on Properties tab will open Control panel. Then click on “Advance System Settings”



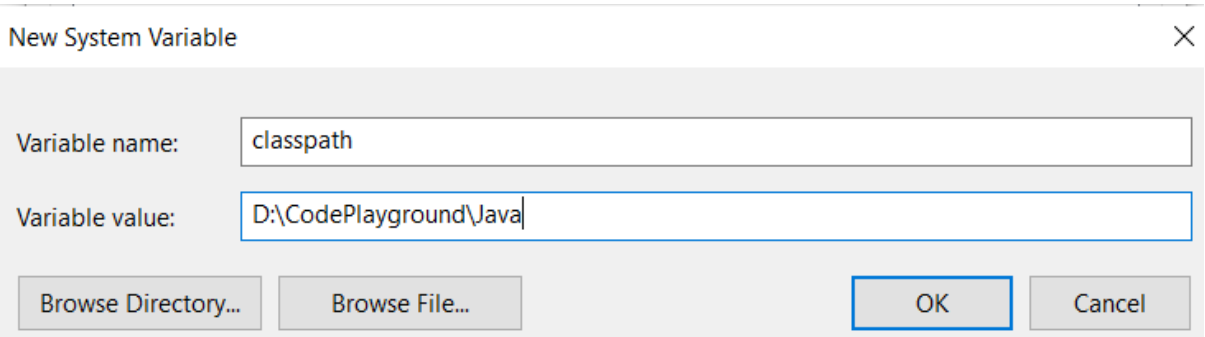
Step 6: Click on “Environment variables”. After that find ‘Path’ in system variables. After finding ‘Path’ click on edit.



Step 7: Click on “Add” and then paste the file path which we copied before.

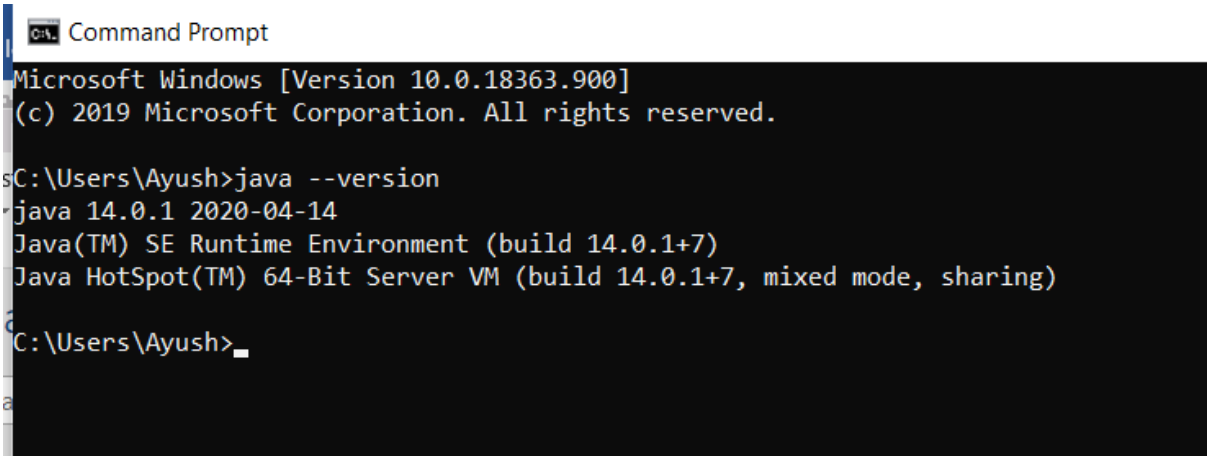


Step 8: We can also specify ‘classpath’ variable which will specify the folder where we will write our java programs. It will be specified because JVM will look in provided path directory for classes. Click on “Add” button to add a new system variable.



Step 9: Open Command prompt and type command java –version

This command will print the version of java which means our installation is successful.



Program 1: Print Hello world.

File: Hello.java

```
class Hello {
   public static void main(String args[])
   {
      System.out.println("Hello World!");
   }
}
```

Output:

```
D:\Sem5\Java\programs>javac Hello.java

D:\Sem5\Java\programs>java Hello.java
Hello World!

D:\Sem5\Java\programs>
```

Program 2: Print Student Data.

File: Info.java

```
public class Info {
   public static void main(String[] args) {
      System.out.println("\nEnroll\t:\t186170316556");
      System.out.println("\nName\t:\tAyush Solanki");
      System.out.println("\nDept\t:\tIT");
      System.out.println("\nSem\t:\t5th");
   }
}
```

Output:

```
D:\Sem5\Java\programs>javac Info.java

D:\Sem5\Java\programs>java Info.java

Enroll  :       186170316556

Name    :       Ayush Solanki

Dept    :       IT

Sem     :       5th

D:\Sem5\Java\programs>
```

Program 2: Print Student Data.

File: Oprs.java

```
public class Oprs {
   public static void main(String[] args) {
      System.out.println("Addition of 10 and 5: ");
      System.out.println(10+5);
      System.out.println("Subtraction of 10 and 5: ");
      System.out.println(10-5);
      System.out.println("Multiplication of 10 and 5: ");
      System.out.println(10*5);
      System.out.println("Multiplication of 10 and 5: ");
      System.out.println(10/5);
   }
}
```

Output:

```
D:\Sem5\Java\programs>javac Oprs.java

D:\Sem5\Java\programs>java Oprs.java
Addition of 10 and 5:
15
Subtraction of 10 and 5:
5
Multiplication of 10 and 5:
50
Multiplication of 10 and 5:
2

D:\Sem5\Java\programs>
```