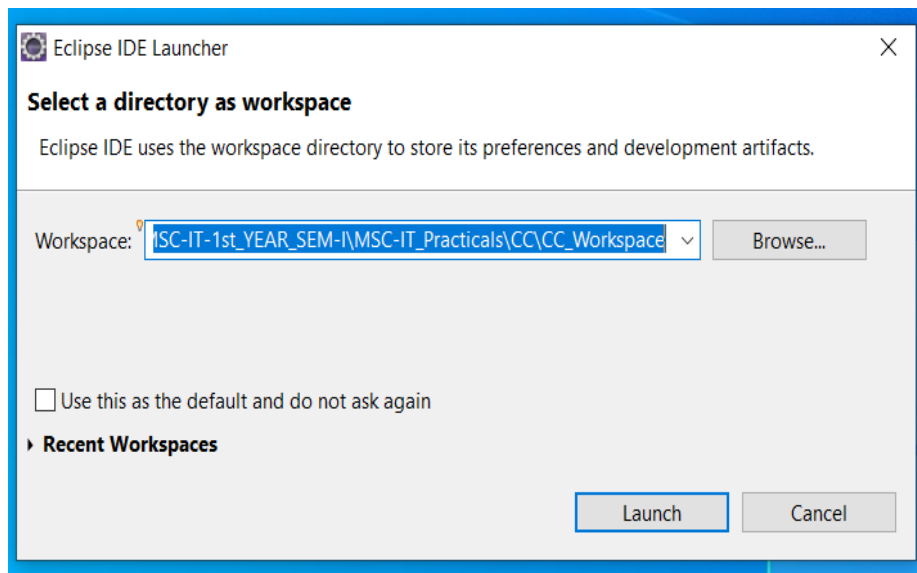


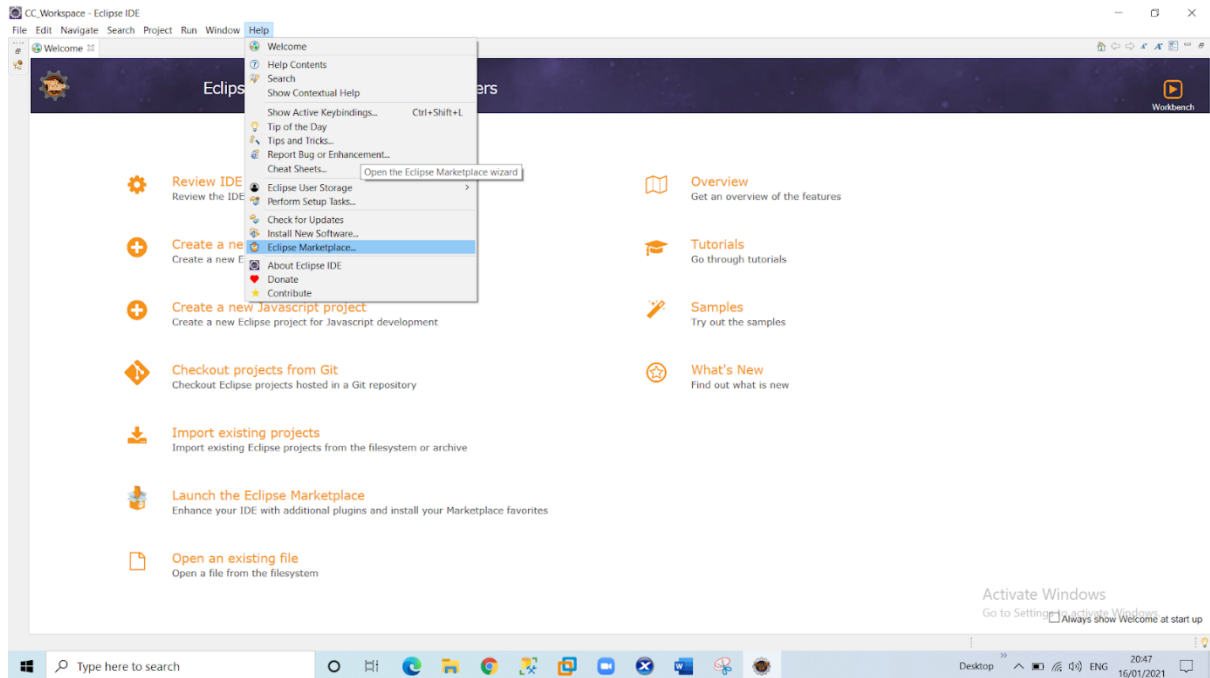
Implement Application with Google App Engine(GAE)

Steps:

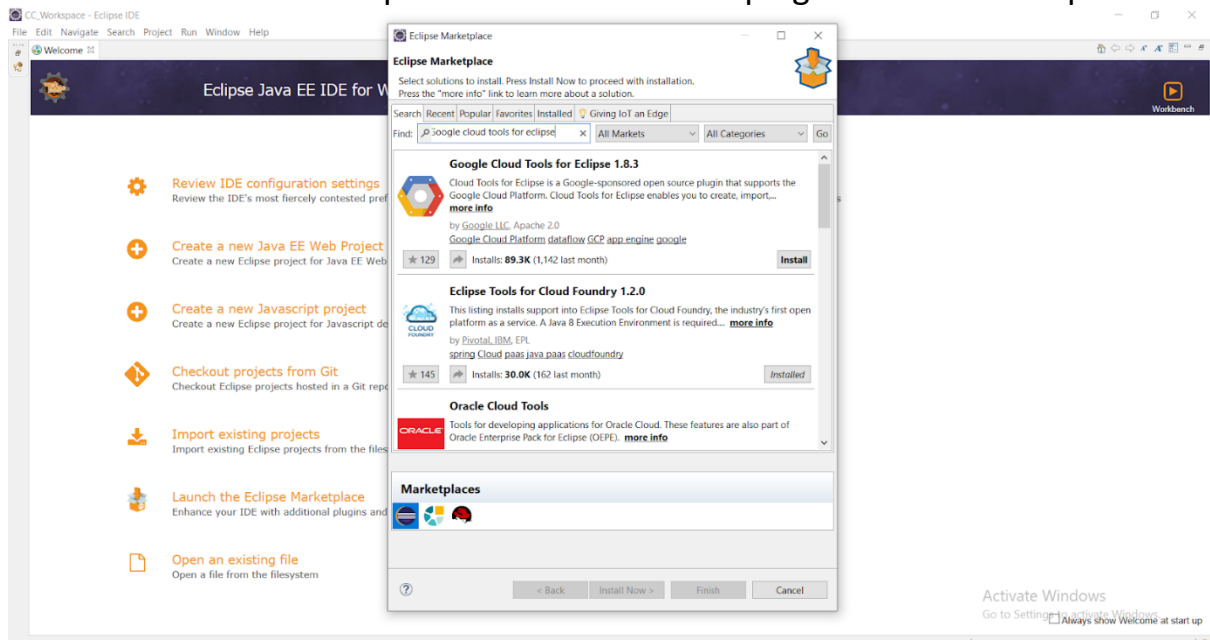
1) Download Eclipse IDE for Enterprise Java Developers and Install.
Open Eclipse and Choose your workspace and click on it.



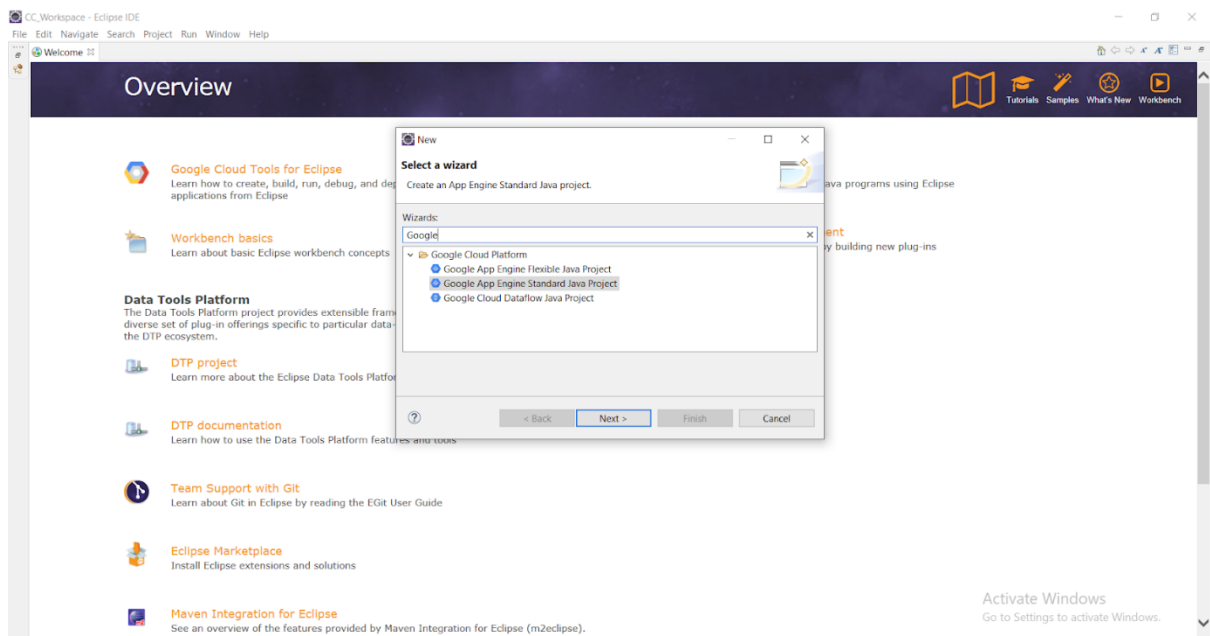
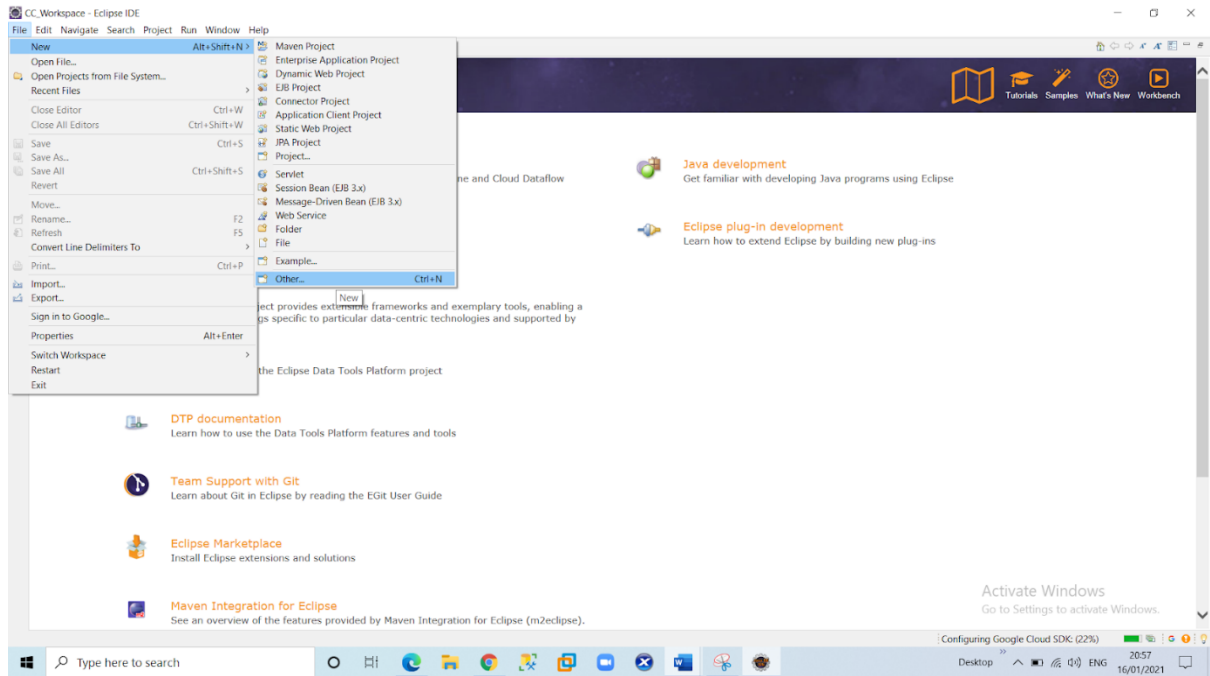
2)Click on >> **Help** >> **Eclipse Marketplace**



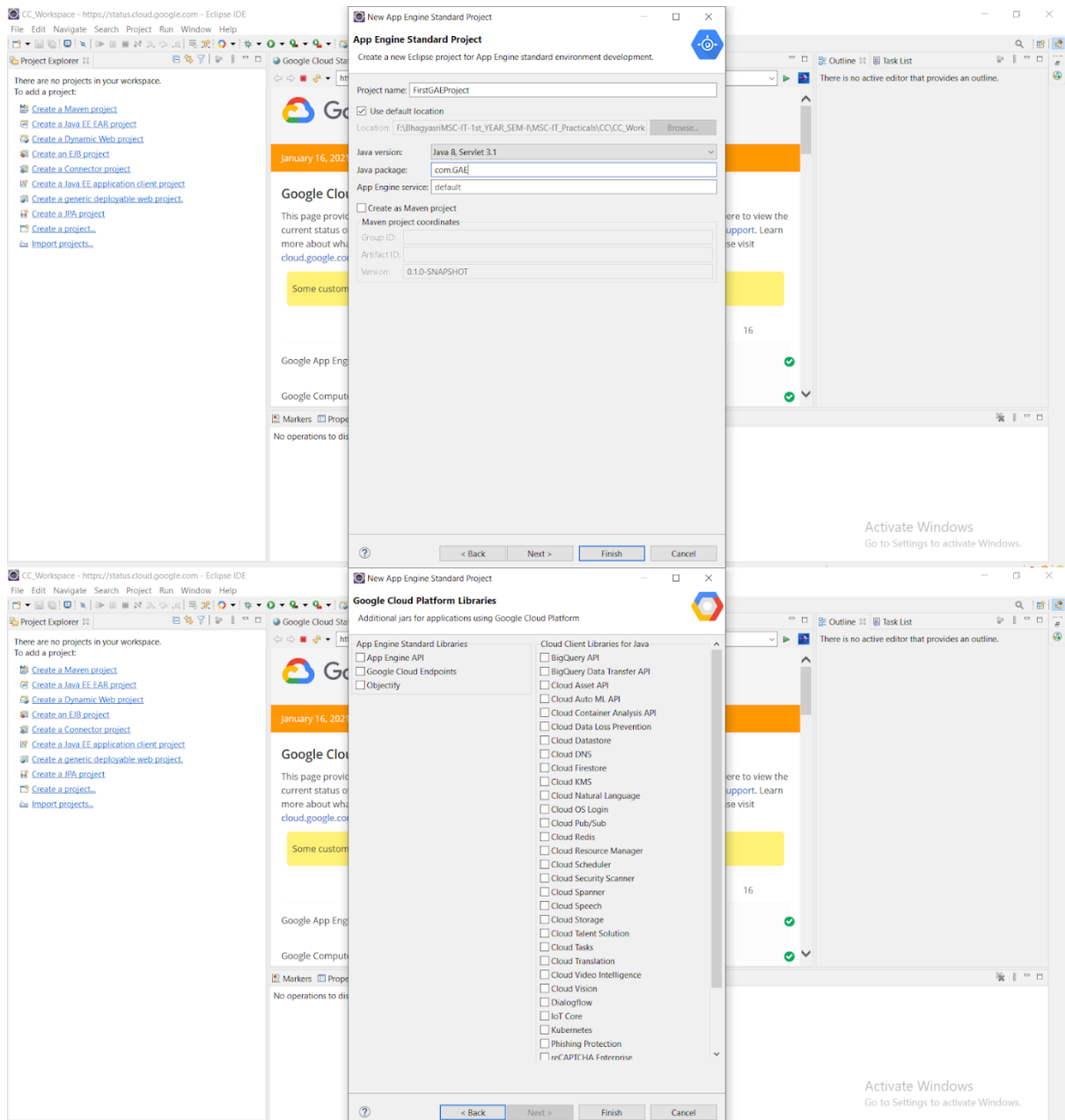
3) In Find Search Box: **Search for “Google cloud tools for eclipse”** and click on **Install** button. After complete installation of the plugin restart the Eclipse.



4) Click on ‘**File**’ menu and select >> **New** >> **Other** and search with “**Google**” keyword and select **Google App Engine Standard Java Project** under **Google Cloud Platform** and click on **Next**.



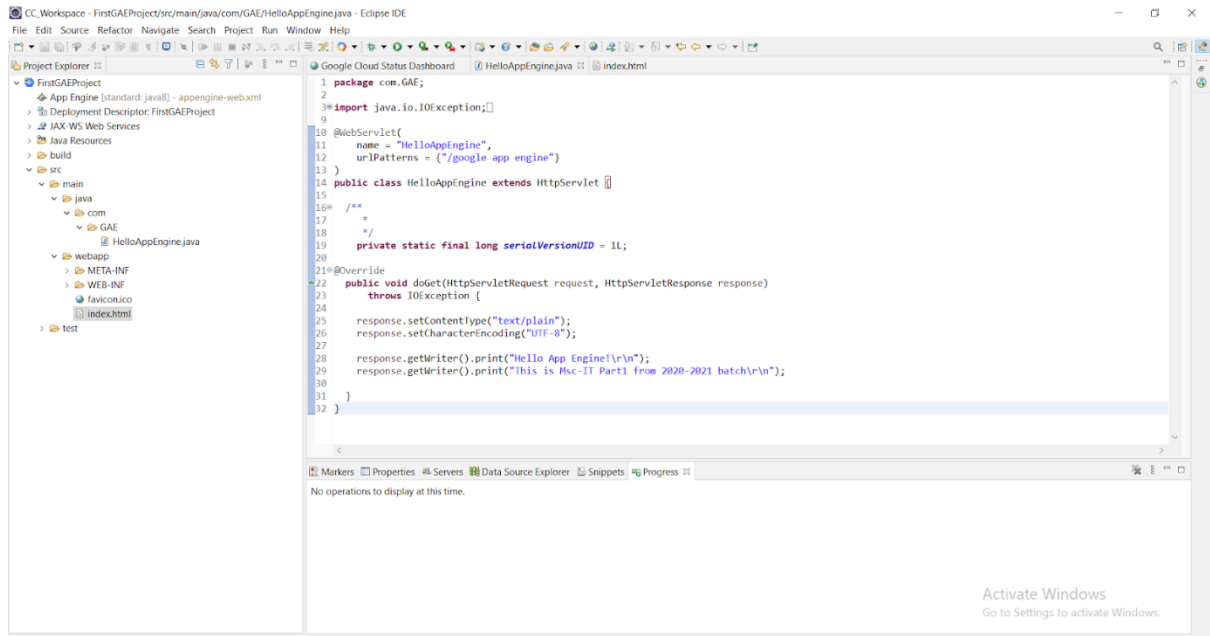
5) Enter **Project Name “FirstGAEProject”** and Package Name **“com.GAE”** and then Click on >> **Next** >> **Finish**.



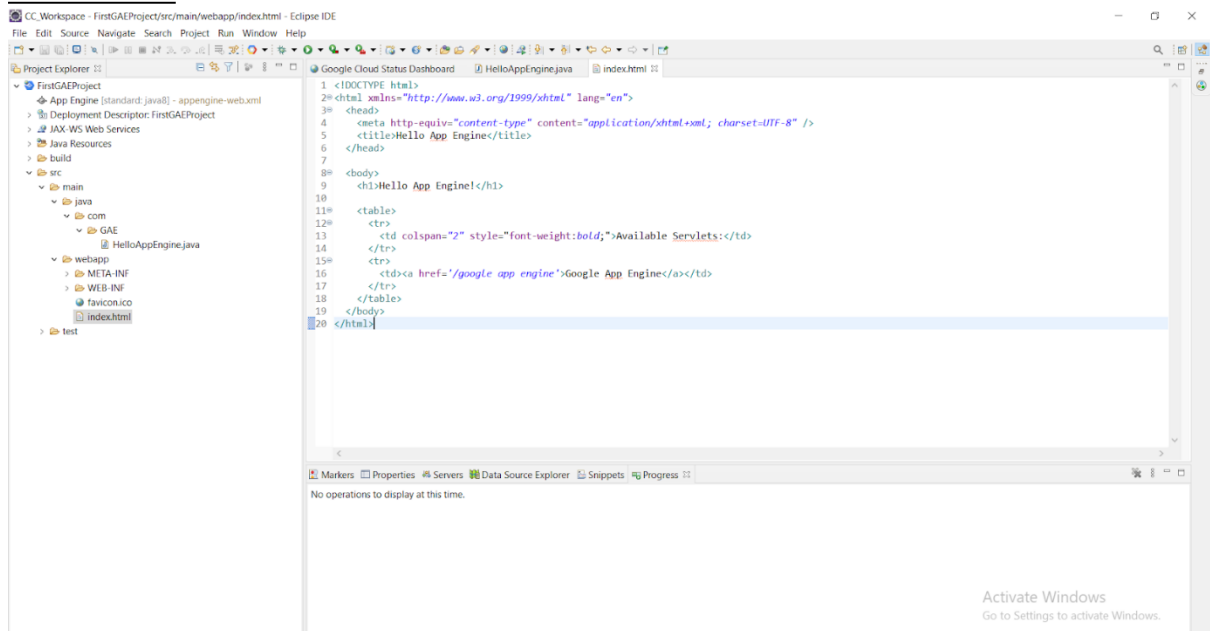
6) Open project hierarchy.

Edit the file as required (Unedited file too can be used. Here the editing is done to “what should be displayed” on the browser). Save the file.

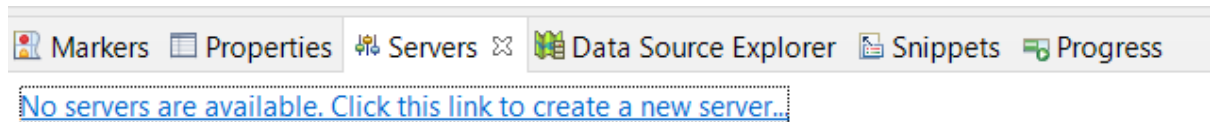
HelloAppEngine.java



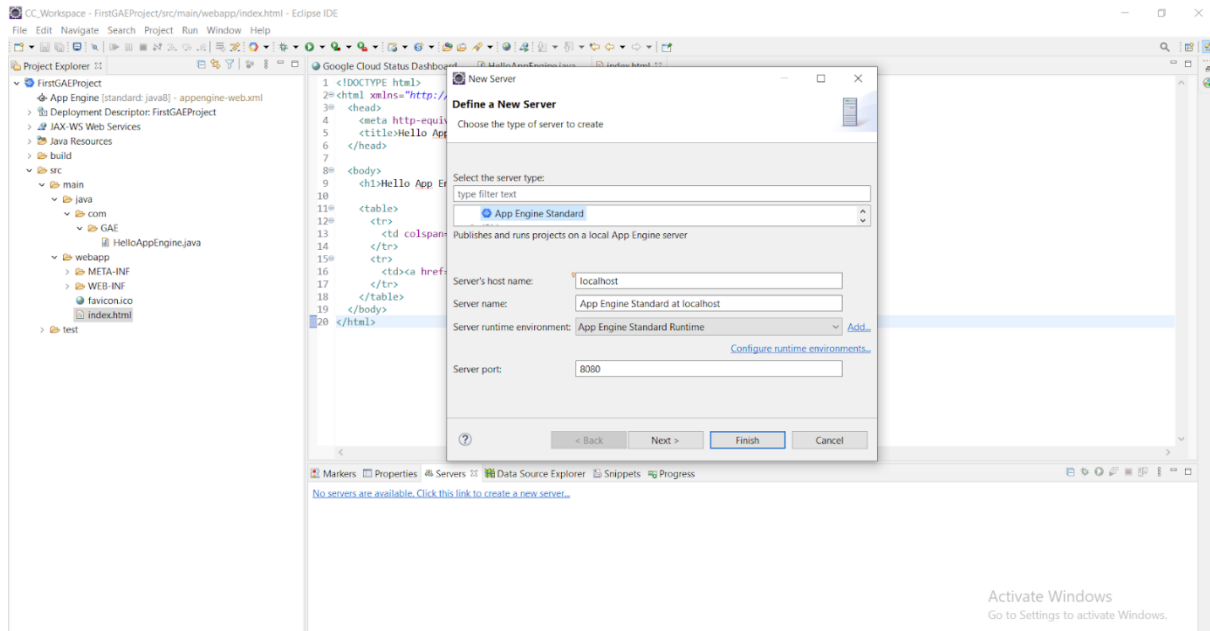
index.html



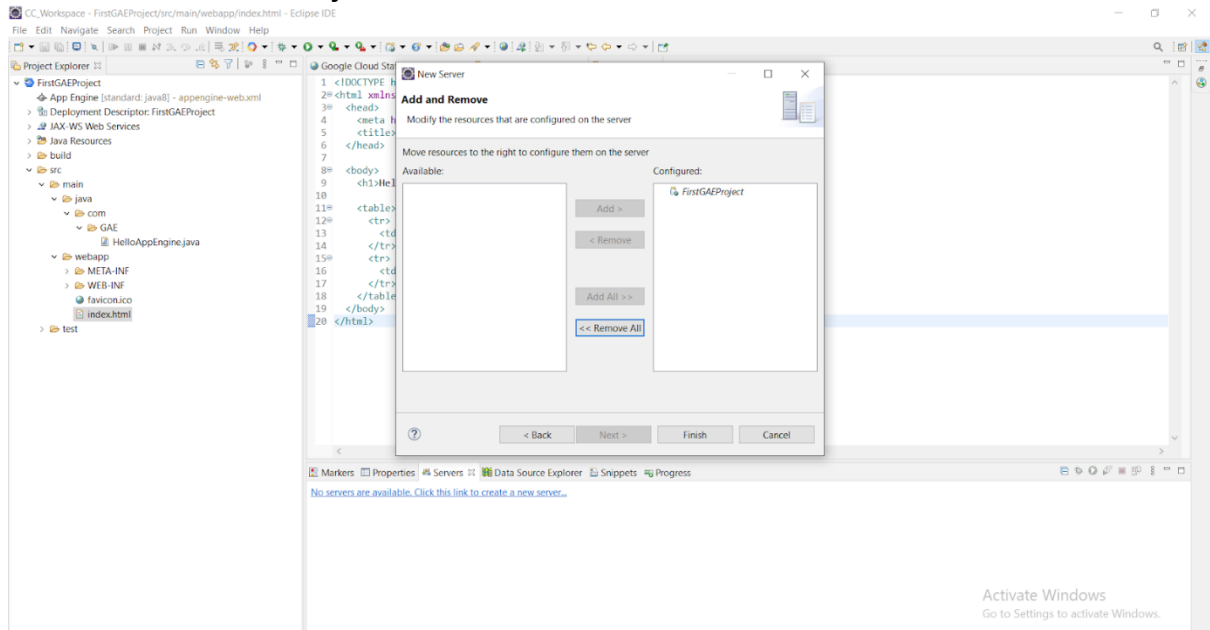
7)Configuring “App Engine Standard” Server. Click on the link to create a new server under **Server tab**.



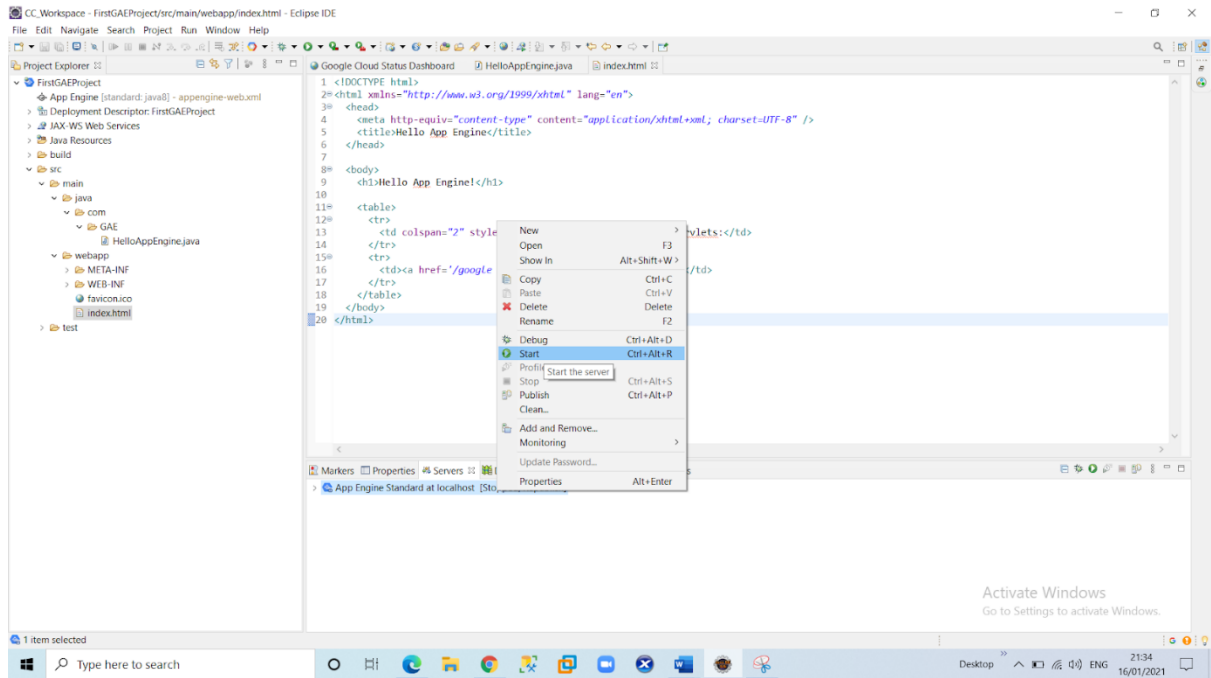
Click Next.



Add the “FirstGAEProject” and click on “Finish”.



8) Start the “App Engine Standard” server.



9) In the browser (Here, Google Chrome) type the address as “localhost:8080” which is "Default" for http protocol

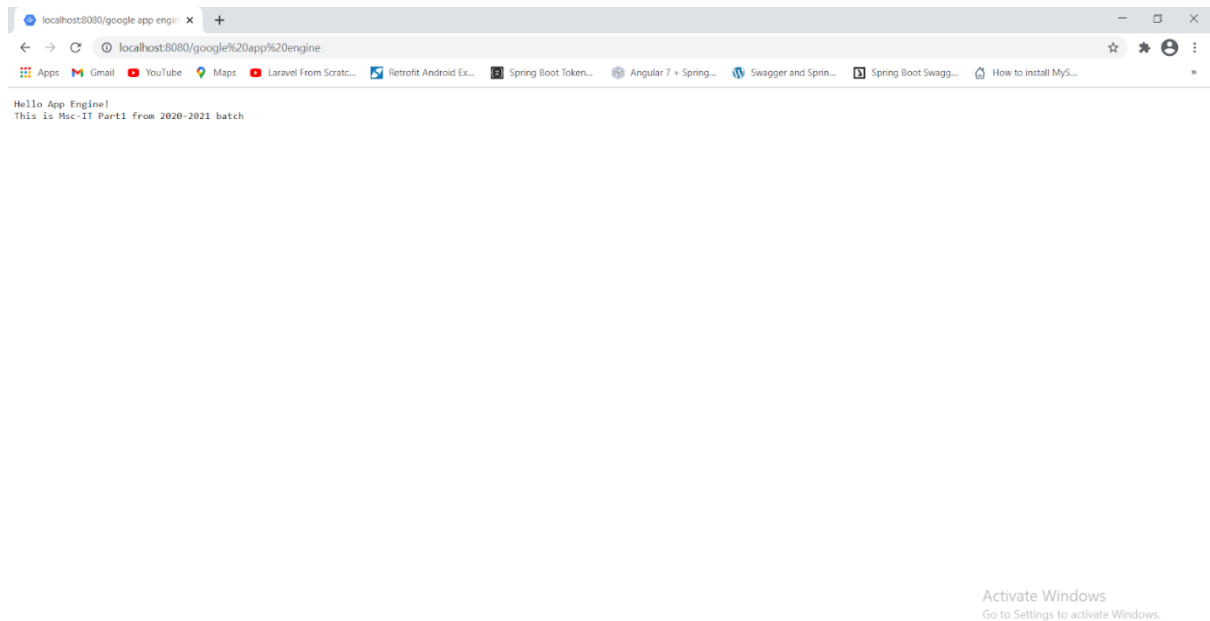


Hello App Engine!

Available Servlets:
[Google App Engine](#)

Activate Windows
Go to Settings to activate Windows.

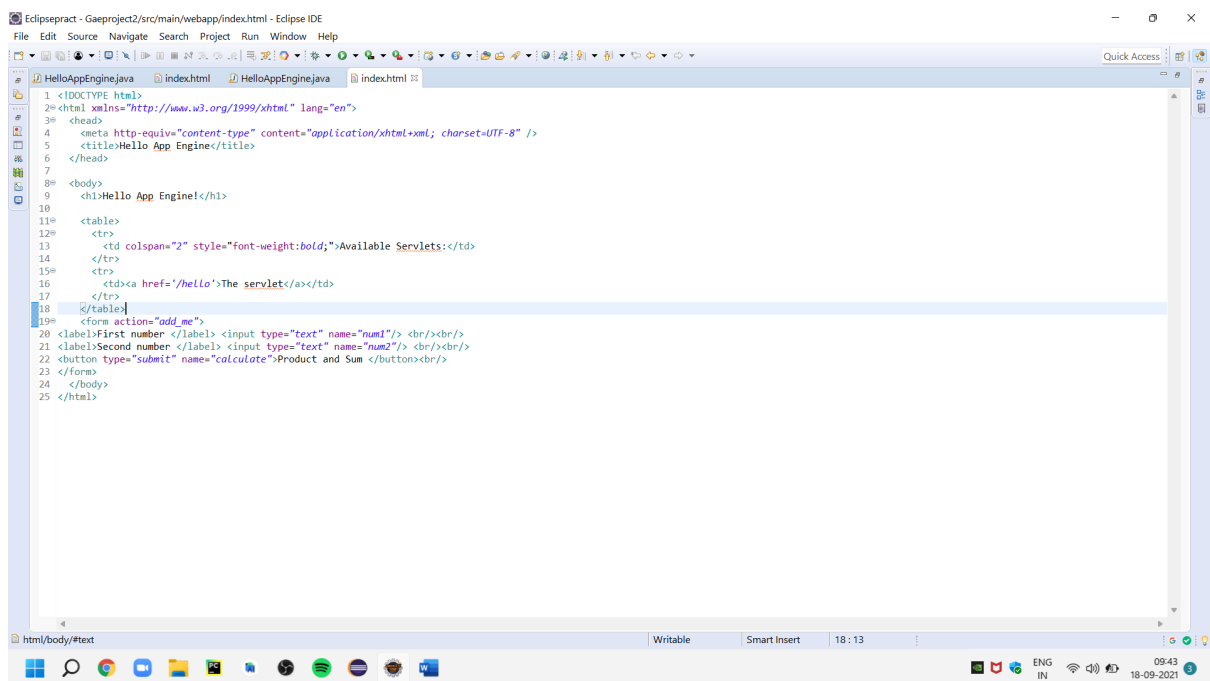
Click on this link “Google App Engine”. It will redirect with the address “localhost:8080/google app engine”.



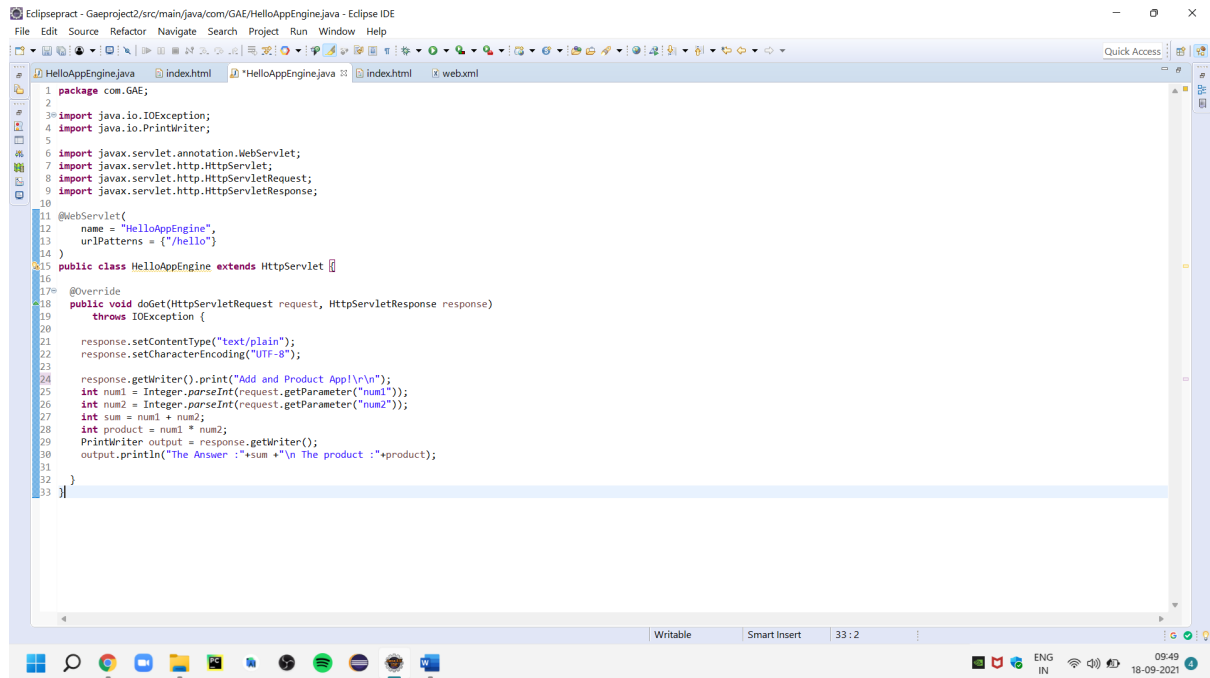
1.Web Reference to create-an-application-to-add-and-multiply-two-numbers-using-servlet

<https://programmerbay.com/create-an-application-to-add-and-multiply-two-numbers-to-the-servlet-to-the-user-in-apache-tomcat-server/>

index.html

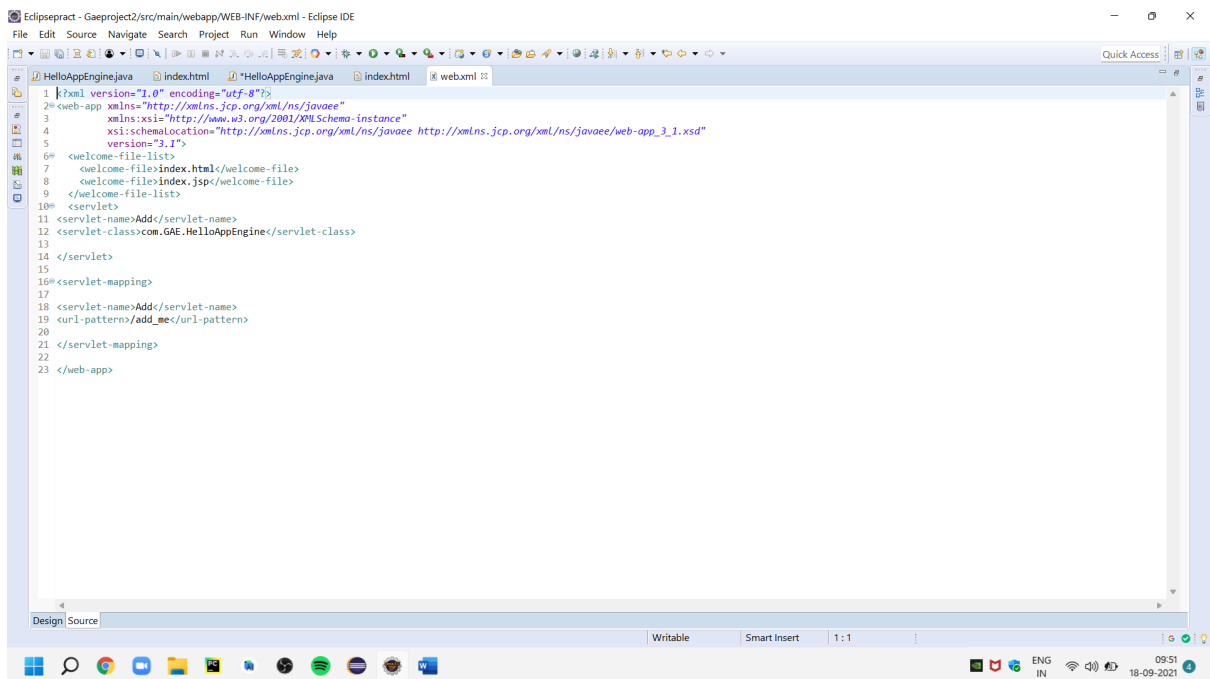


HelloAppEngine.Java



```
1 package com.GAE;
2
3 import java.io.IOException;
4 import java.io.PrintWriter;
5
6 import javax.servlet.annotation.WebServlet;
7 import javax.servlet.http.HttpServlet;
8 import javax.servlet.http.HttpServletRequest;
9 import javax.servlet.http.HttpServletResponse;
10
11 @WebServlet(
12     name = "HelloAppEngine",
13     urlPatterns = {"/hello"}
14 )
15 public class HelloAppEngine extends HttpServlet {
16
17     @Override
18     public void doGet(HttpServletRequest request, HttpServletResponse response)
19         throws IOException {
20
21         response.setContentType("text/plain");
22         response.setCharacterEncoding("UTF-8");
23
24         response.getWriter().print("Add and Product Appl\n\n");
25         int num1 = Integer.parseInt(request.getParameter("num1"));
26         int num2 = Integer.parseInt(request.getParameter("num2"));
27         int sum = num1 + num2;
28         int product = num1 * num2;
29         PrintWriter output = response.getWriter();
30         output.println("The Answer : "+sum +"\n The product : "+product);
31     }
32 }
33 }
```

Web.xml



```
1 <?xml version="1.0" encoding="utf-8"?>
2 <web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
3     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4     xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
5     version="3.1">
6     <welcome-file-list>
7         <welcome-file>index.html</welcome-file>
8         <welcome-file>index.jsp</welcome-file>
9     </welcome-file-list>
10    <servlet>
11        <servlet-name>Add</servlet-name>
12        <servlet-class>com.GAE.HelloAppEngine</servlet-class>
13    </servlet>
14
15    <servlet-mapping>
16        <servlet-name>Add</servlet-name>
17        <url-pattern>/add</url-pattern>
18    </servlet-mapping>
19 </web-app>
```