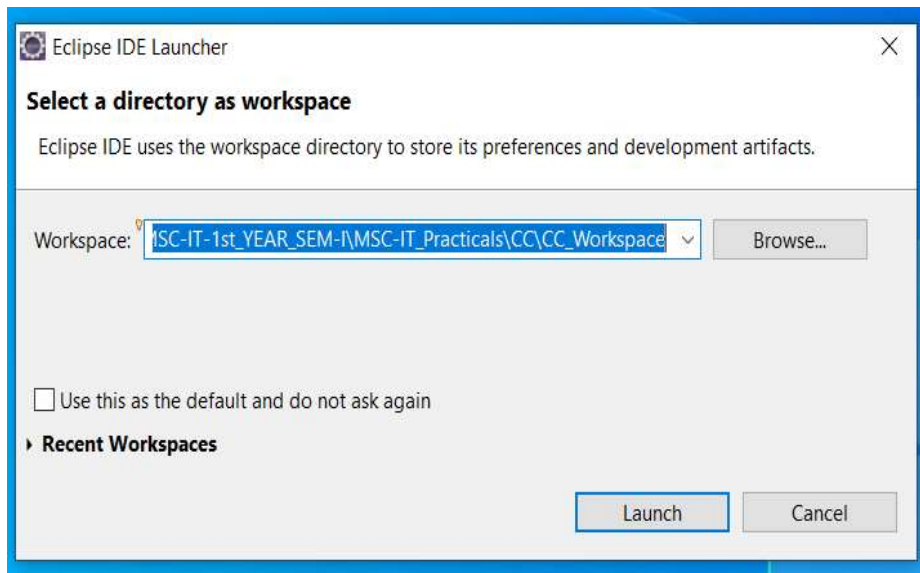


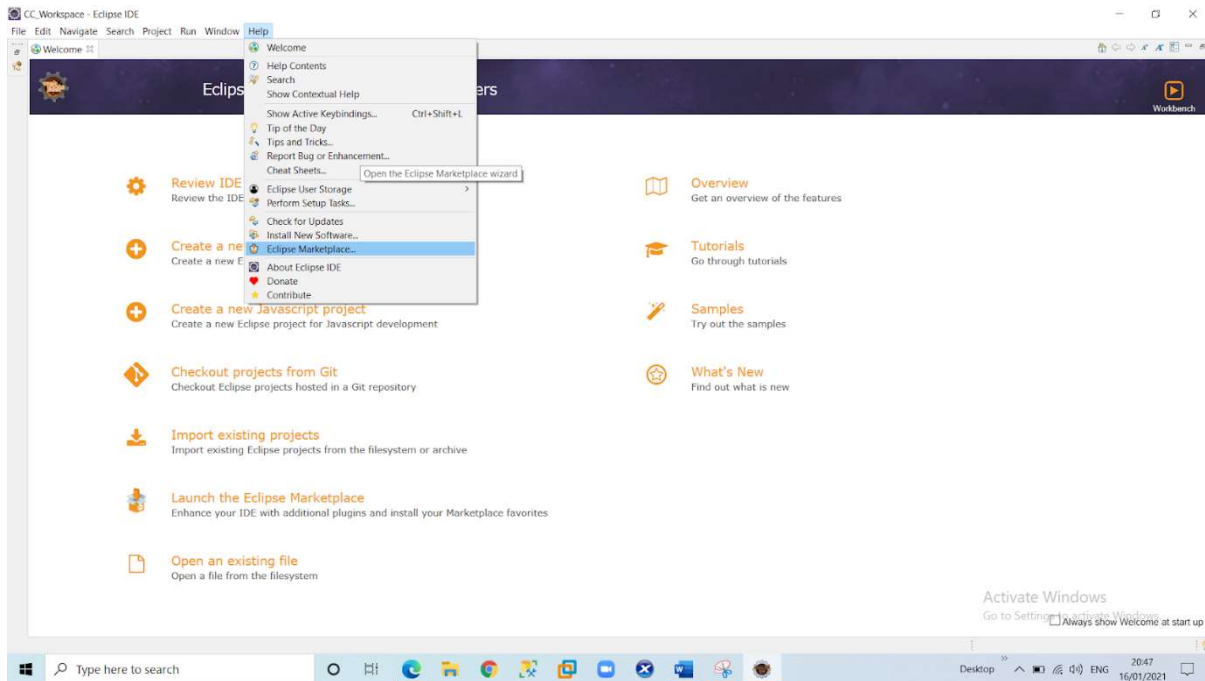
# Implement Application with Google App Engine(GAE)

## **Steps:**

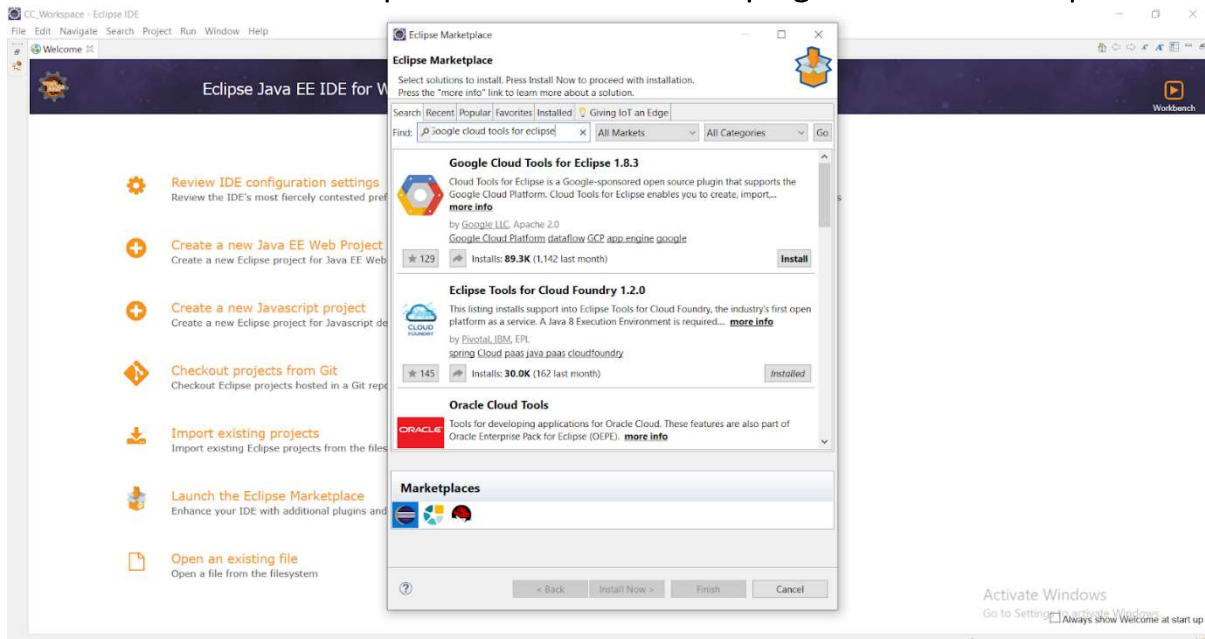
1) Download Eclipse IDE for Enterprise Java Developers and Install.  
Open Eclipse and Choose your workspace and click on it.



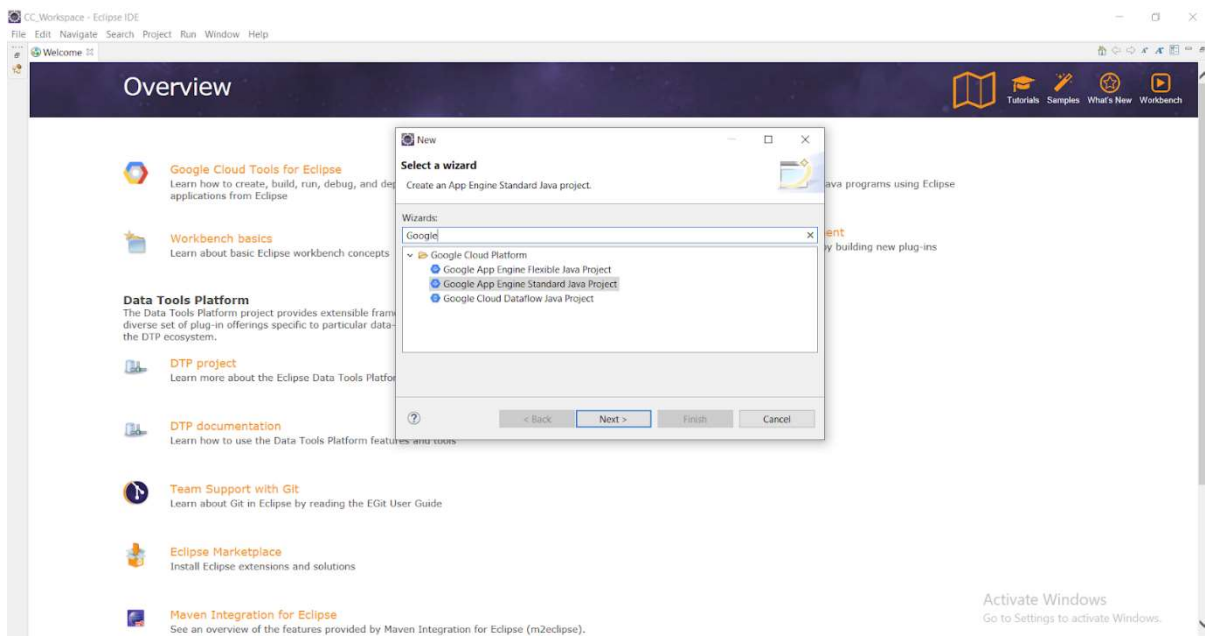
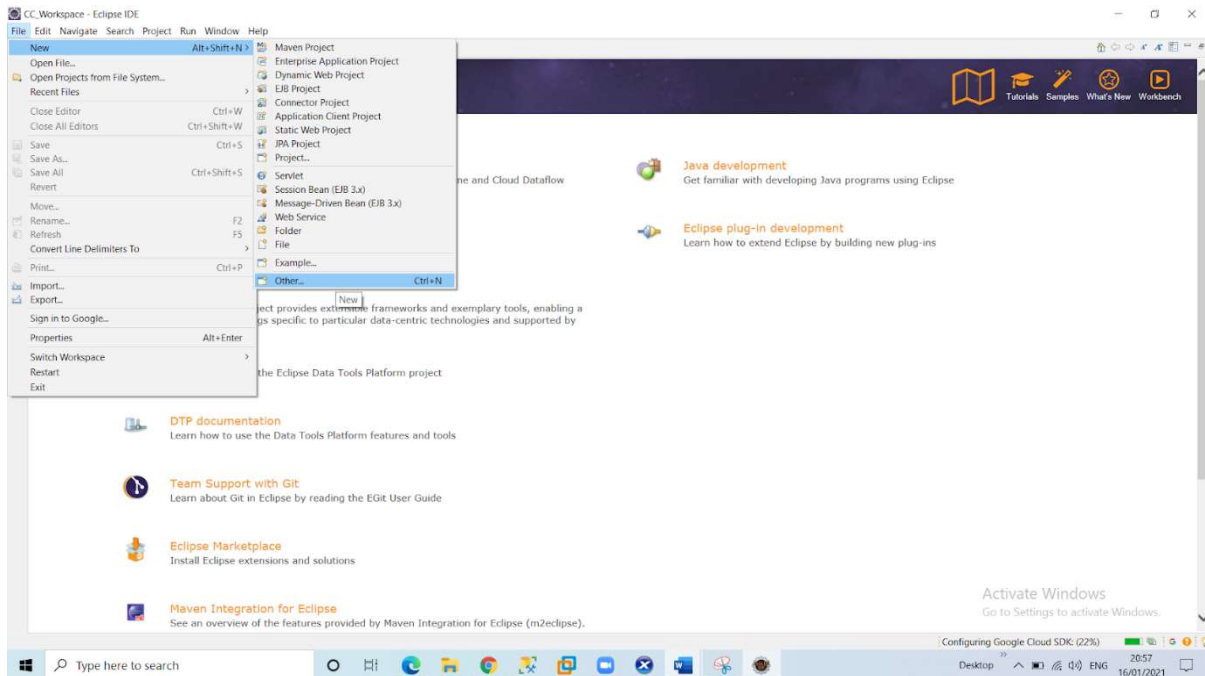
2)Click on >> **Help** >> **Eclipse Marketplace**



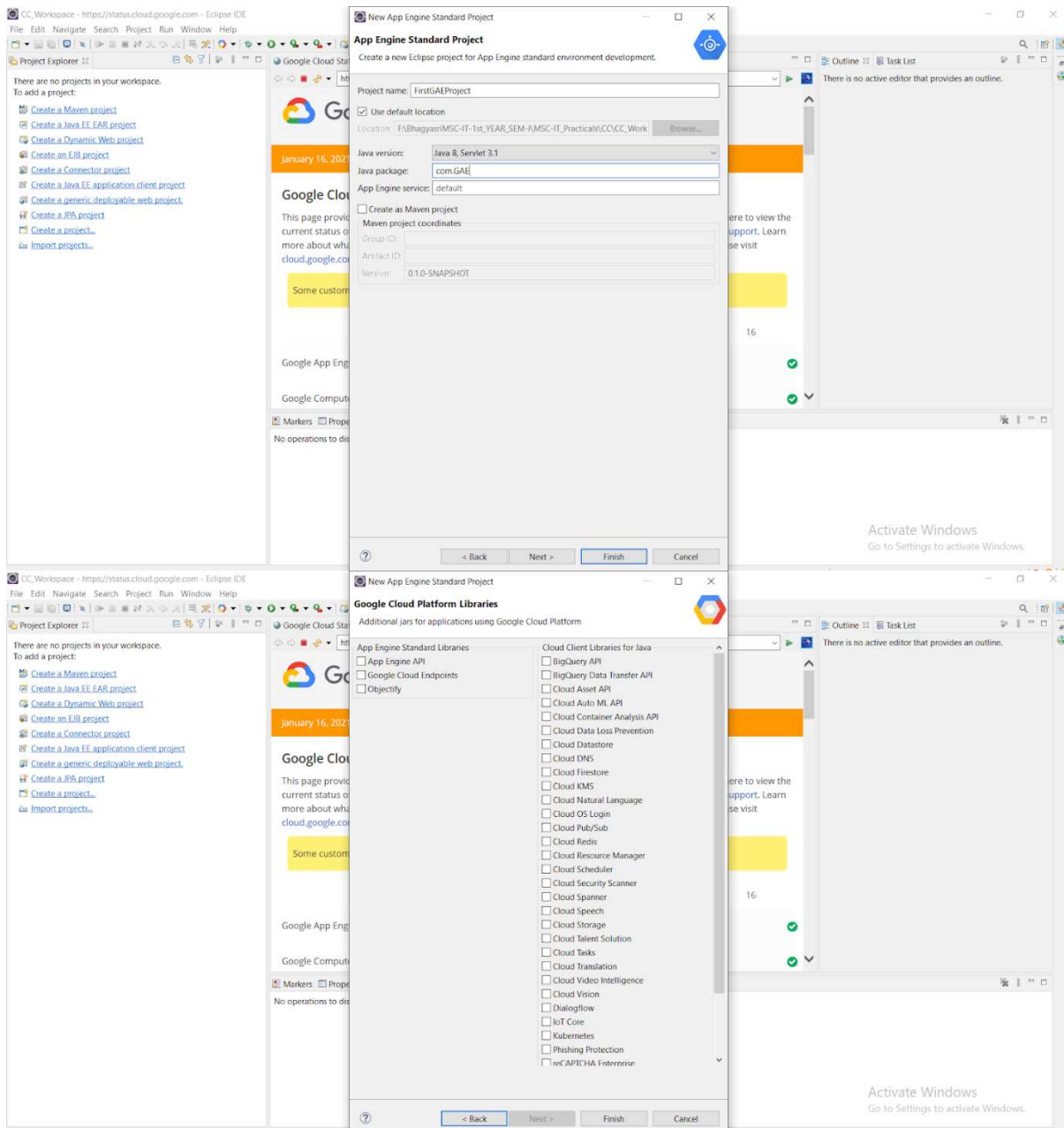
3) In Find Search Box: Search for “Google cloud tools for eclipse” and click on **Install** button. After complete installation of the plugin restart the Eclipse.



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.



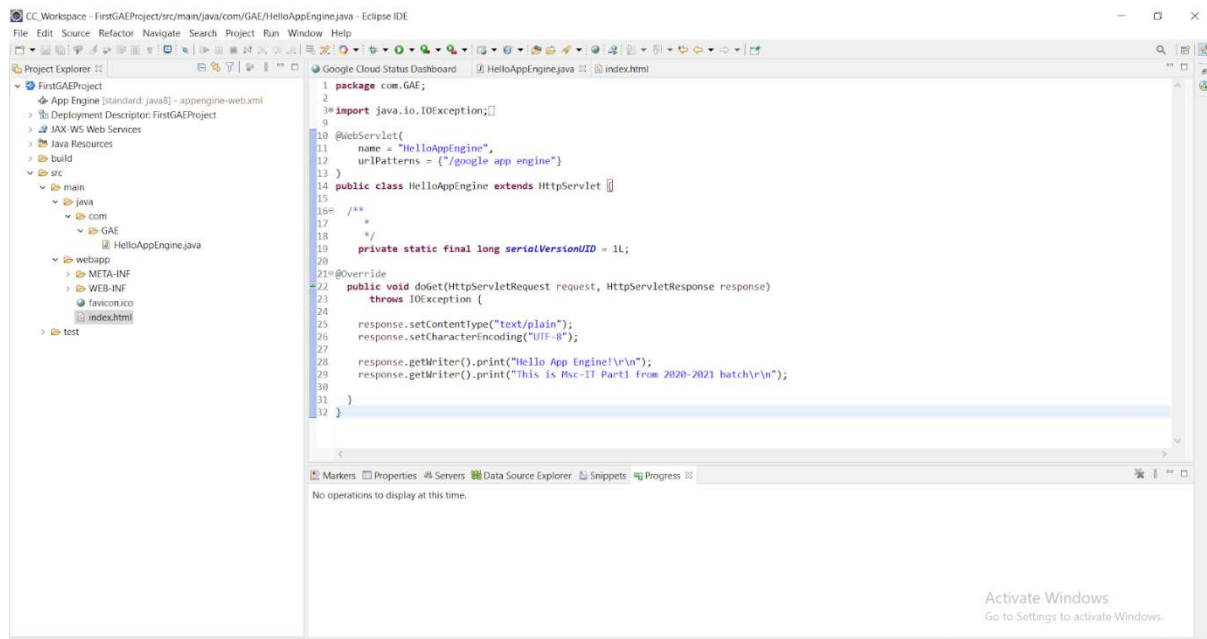
5) Enter **Project Name “FirstGAEProject”** and Package Name **“com.GAE”** and then Click on >> **Next** >> **Finish**.



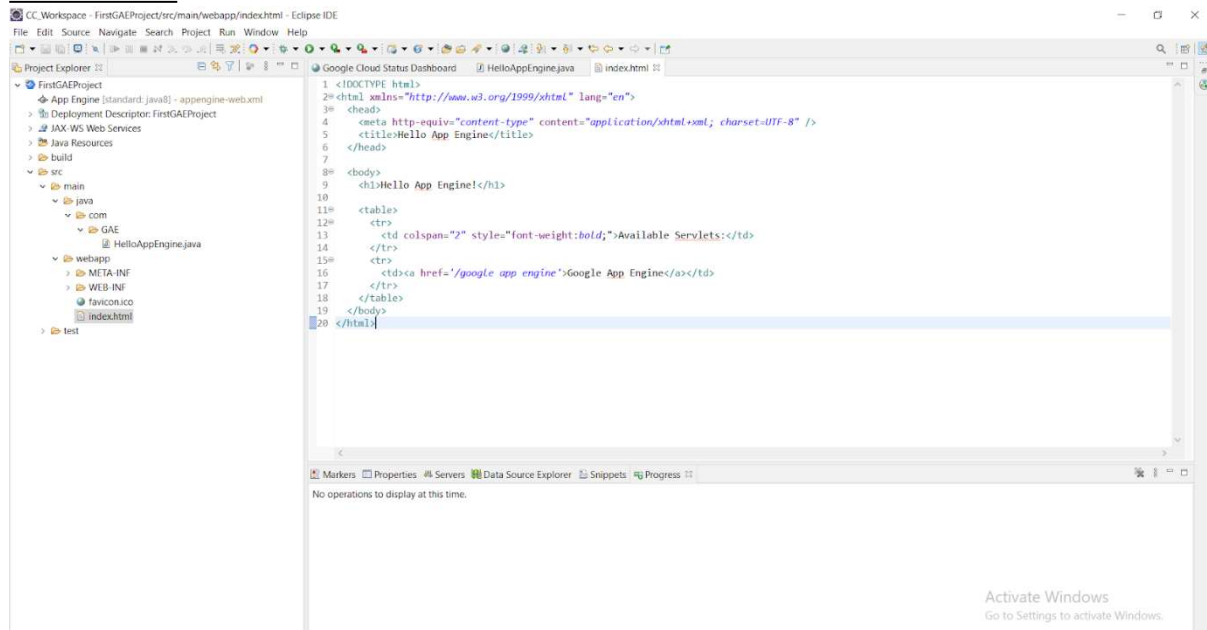
6) Open project hierarchy.

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.

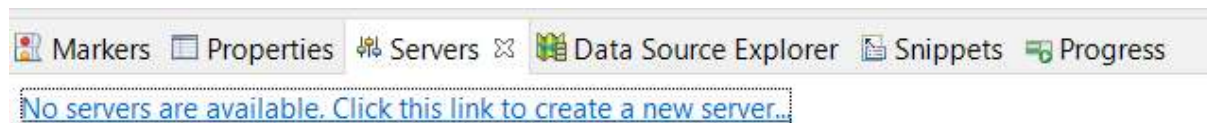
**HelloAppEngine.java**



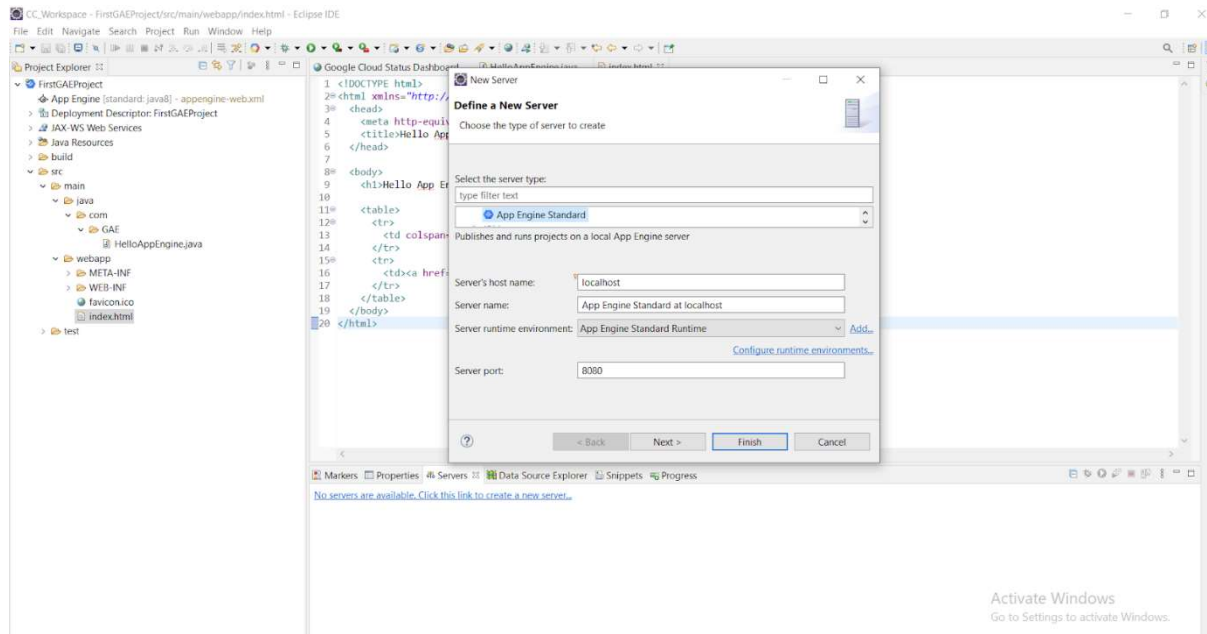
## index.html



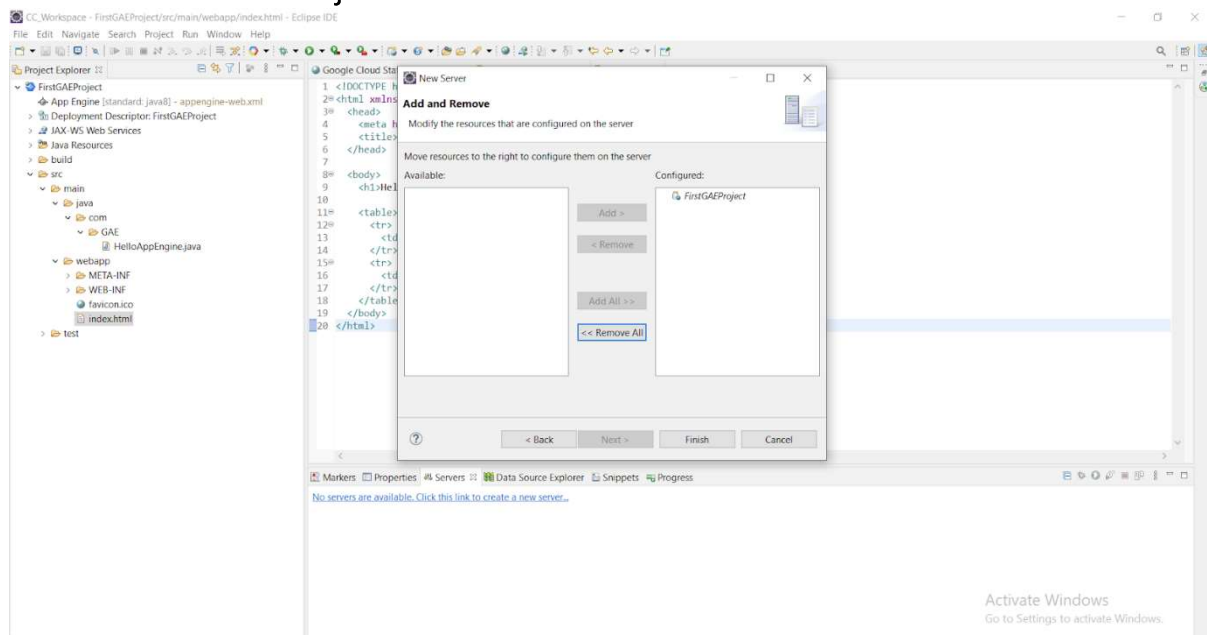
7)Configuring “App Engine Standard” Server. Click on the link to create a new server under **Server** tab.



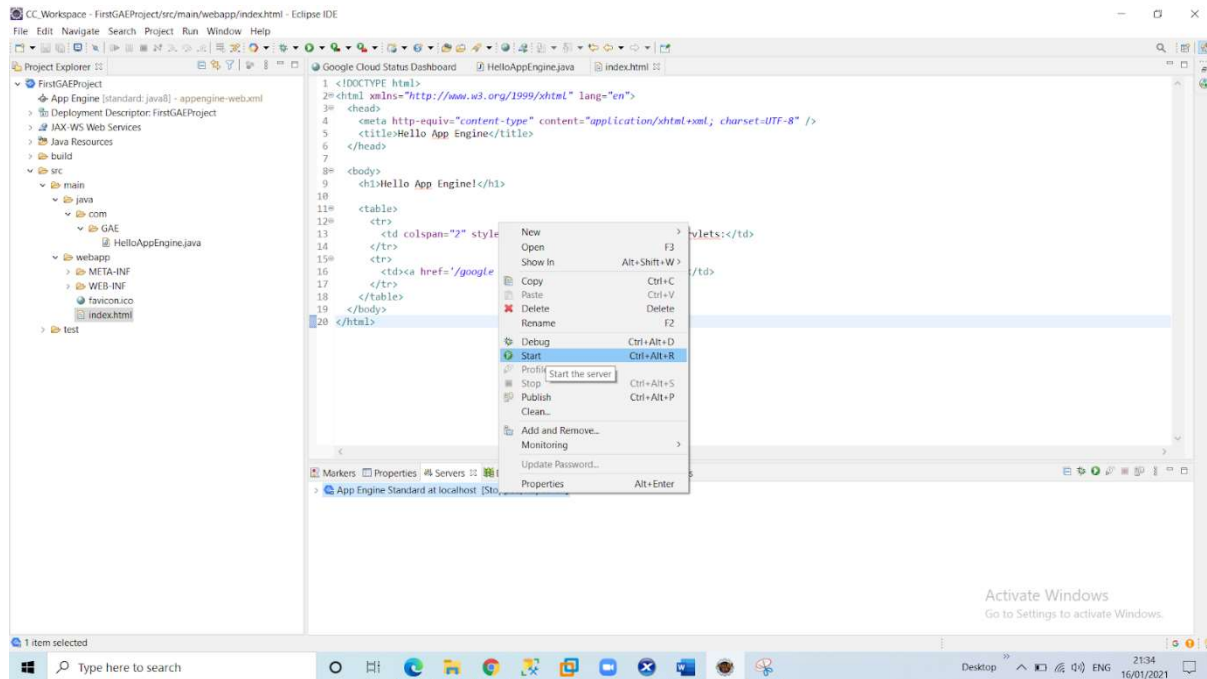
Click Next.



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



8) Start the “App Engine Standard” server.

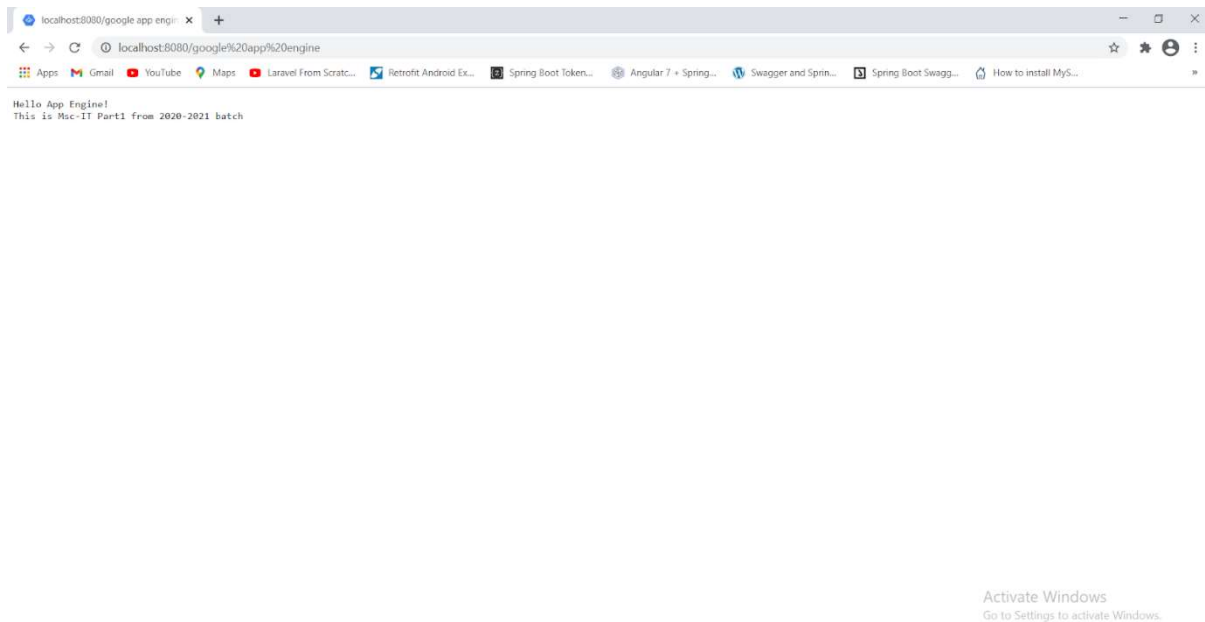


9) In the browser (Here, Google Chrome) type the address as “localhost:8080” which is "Default" for http protocol



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

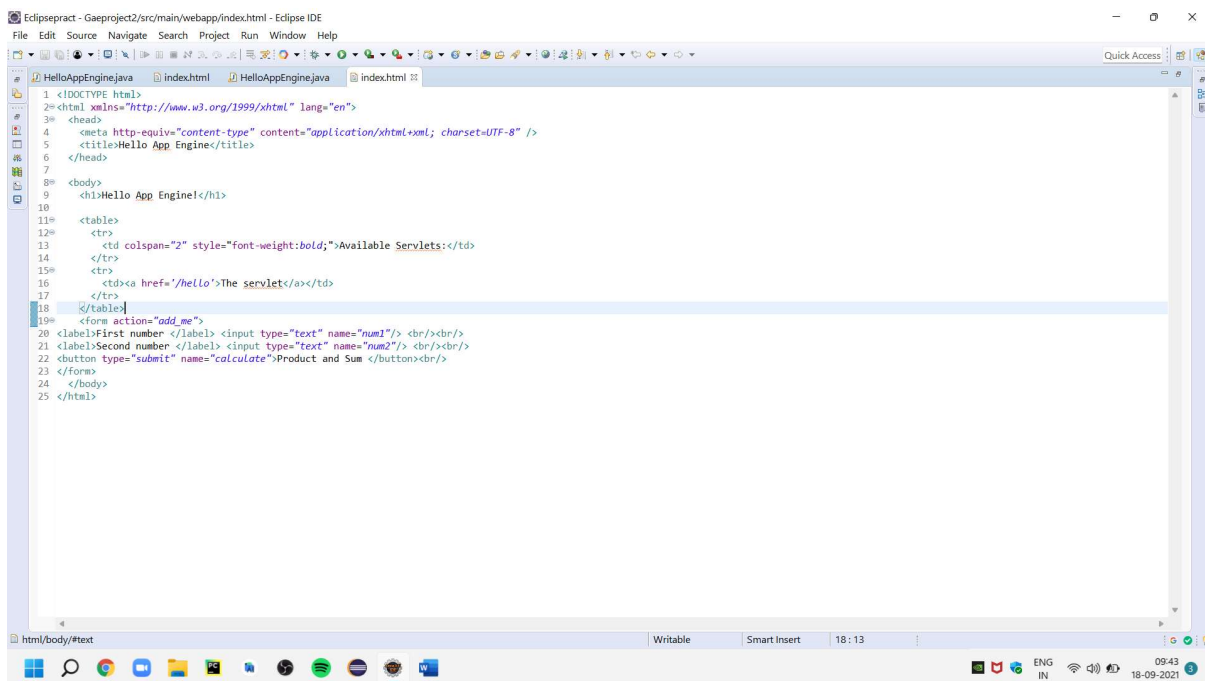




## 1.Web Reference to create-an-application-to-add-and-multiply-two-numbers-using-servlet

<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 App\\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    <servlet-mapping>
15        <servlet-name>Add</servlet-name>
16        <url-pattern>/add_me</url-pattern>
17    </servlet-mapping>
18 </web-app>
```