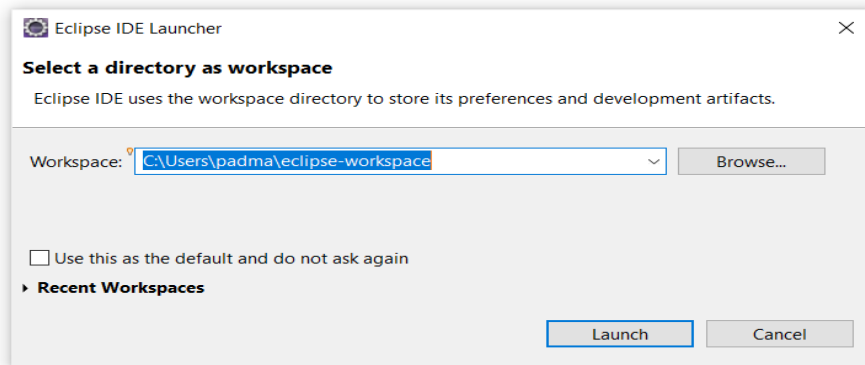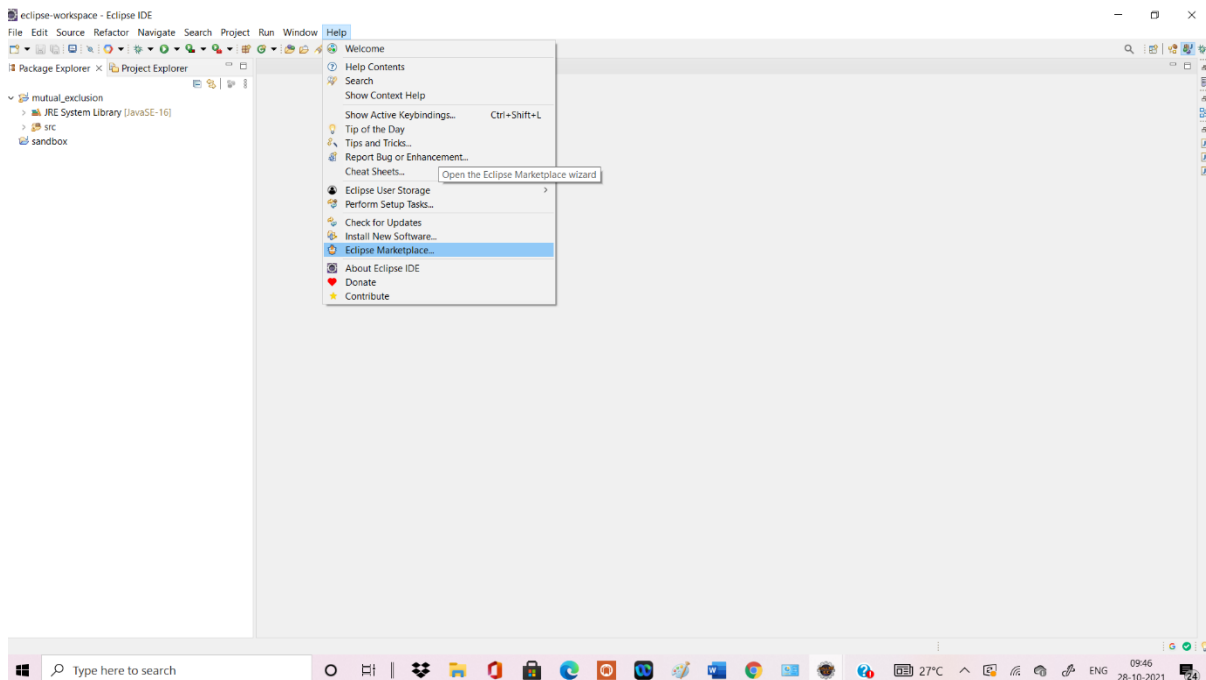# Practical No. 8
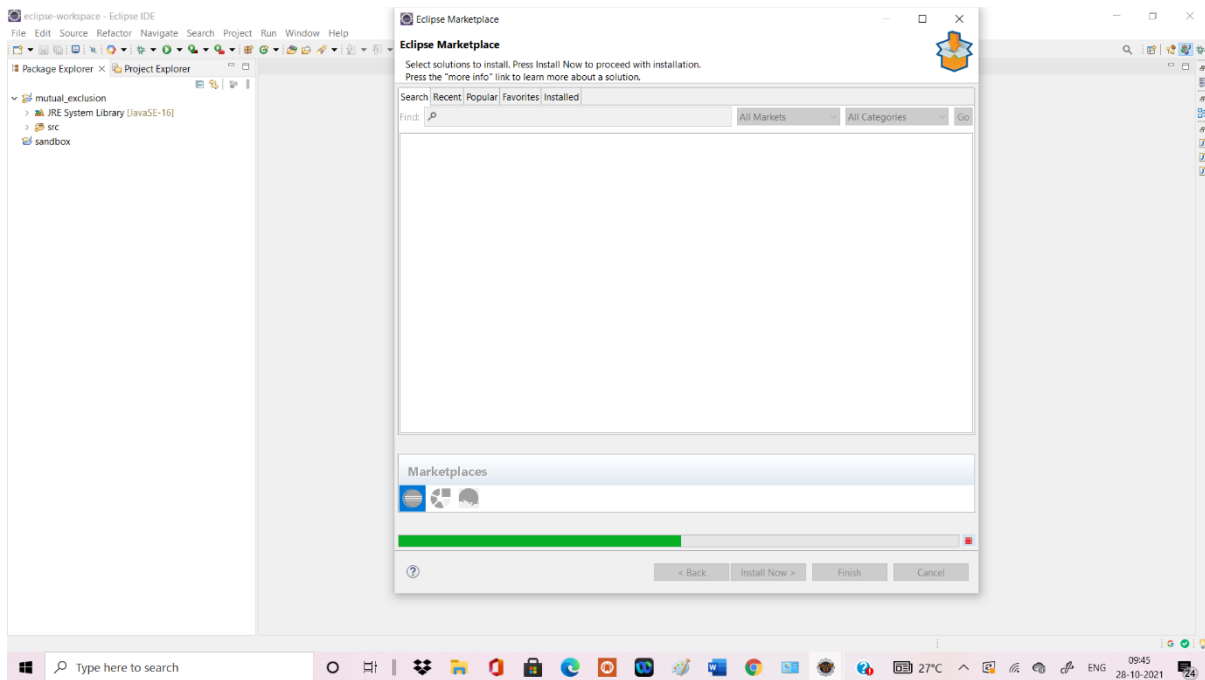
App Development using Cloud Computing

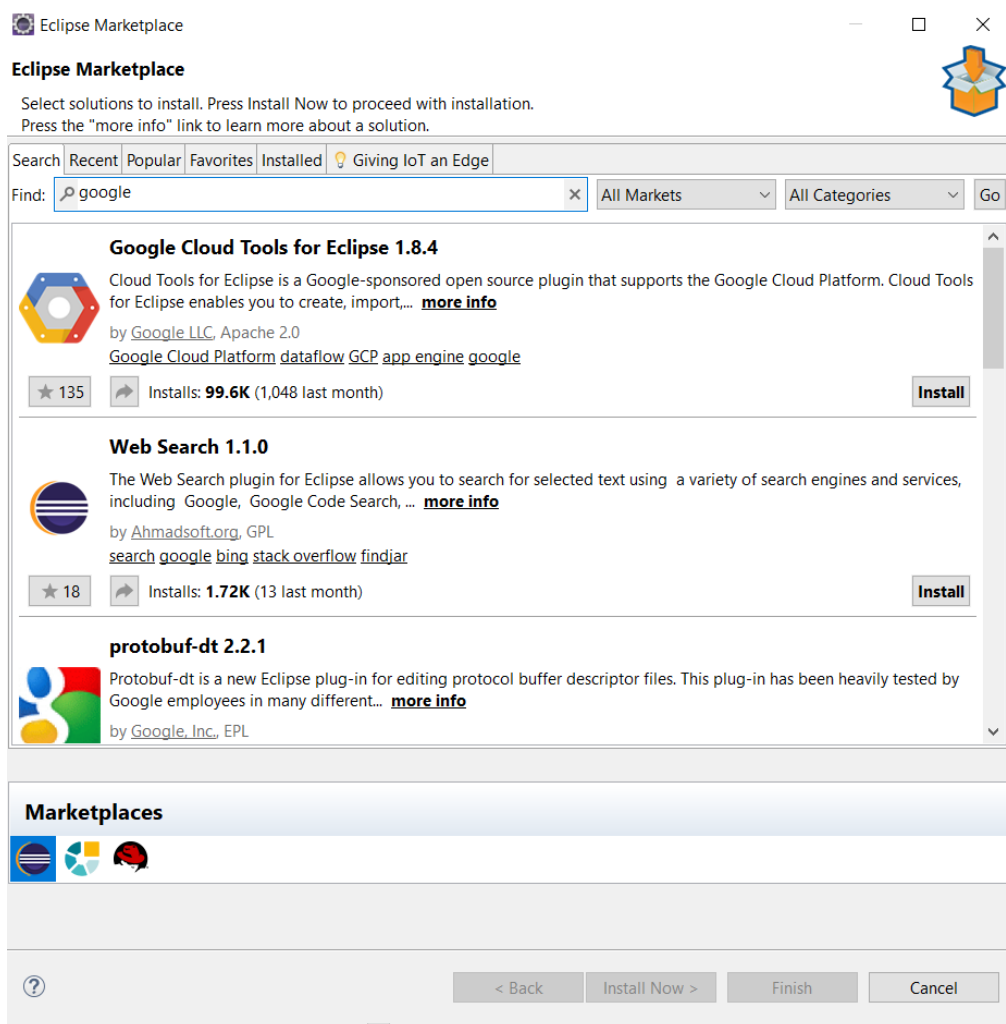**Aim:** To develop applications using Google App Engine by using Eclipse IDE

After Creating Workspace below screen will appear
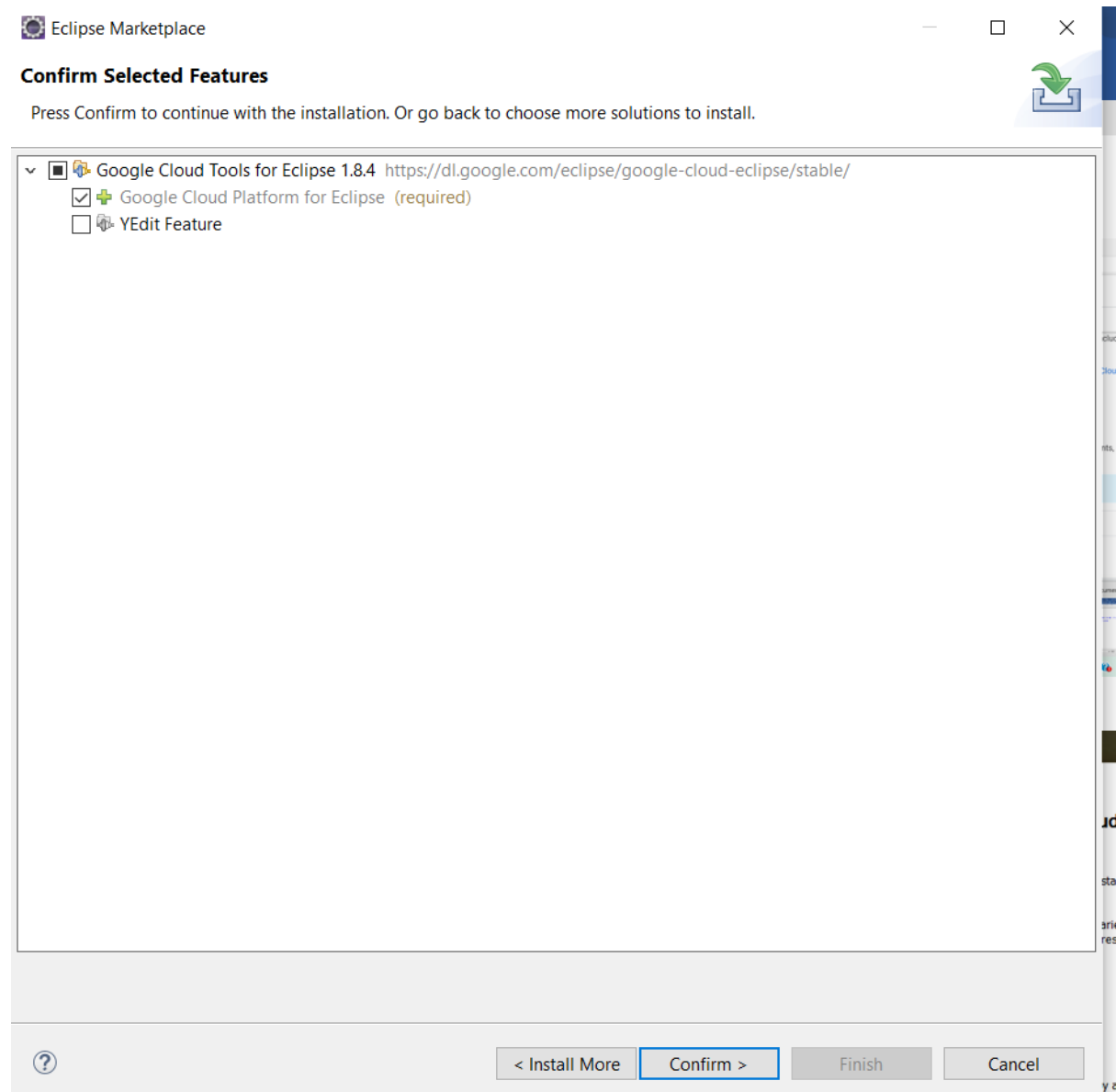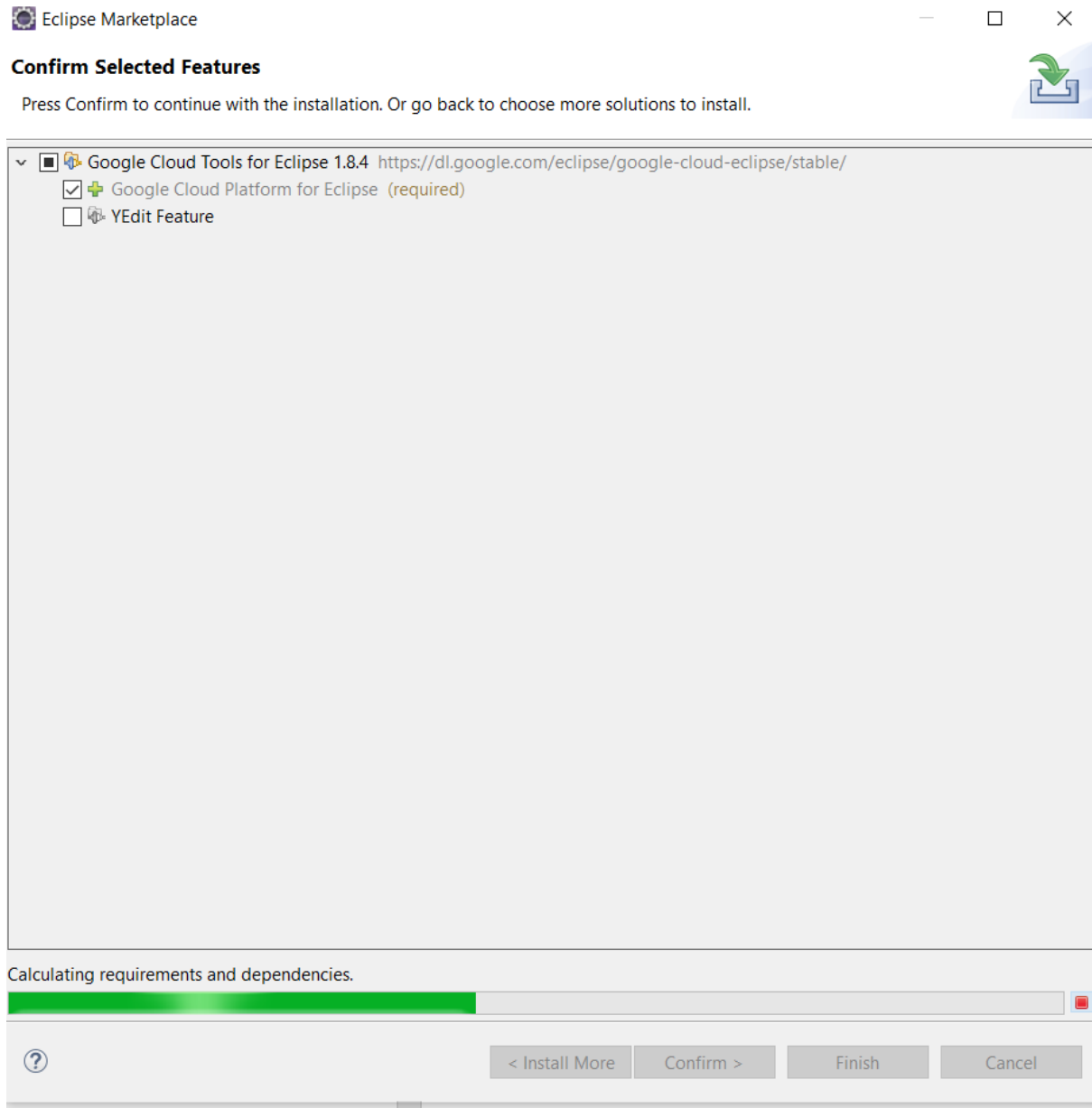
Click on HELP->Eclipse Marketplace

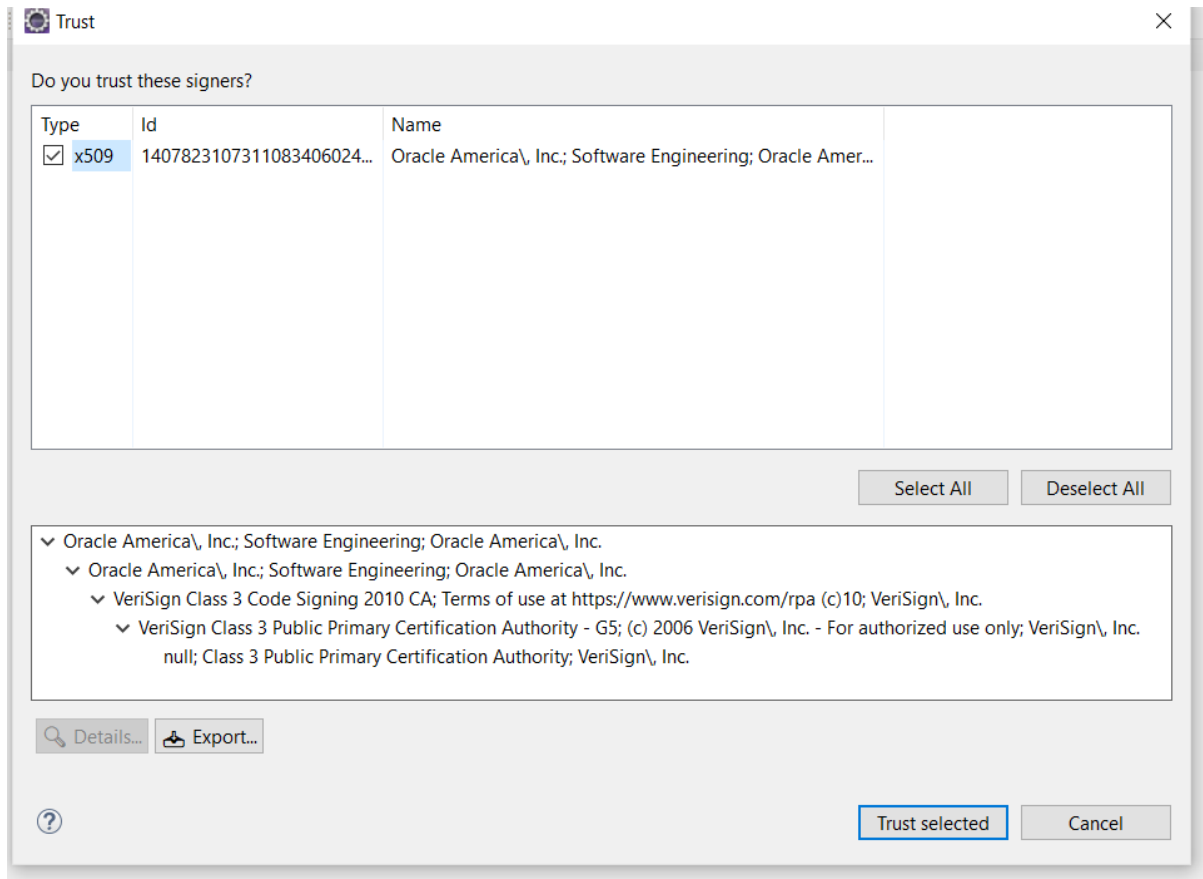Once the Eclipse Marketplace window appear in search textbox write **google** click on enter

Click on Confirm

Eclipse Marketplace — □ ✕

Confirm Selected Features

Press Confirm to continue with the installation. Or go back to choose more solutions to install.

- ☑ Google Cloud Tools for Eclipse 1.8.4 https://dl.google.com/eclipse/google-cloud-eclipse/stable/
  - ☑ Google Cloud Platform for Eclipse (required)
  - ☐ YEdit Feature

Calculating requirements and dependencies.

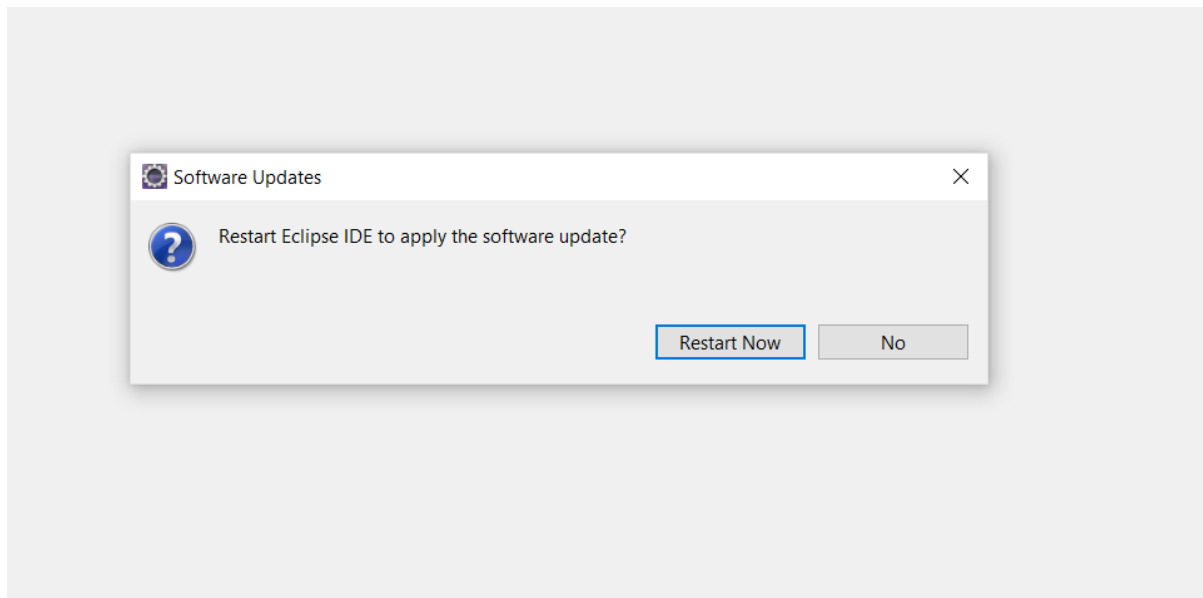⑦ | < Install More | Confirm > | Finish | Cancel

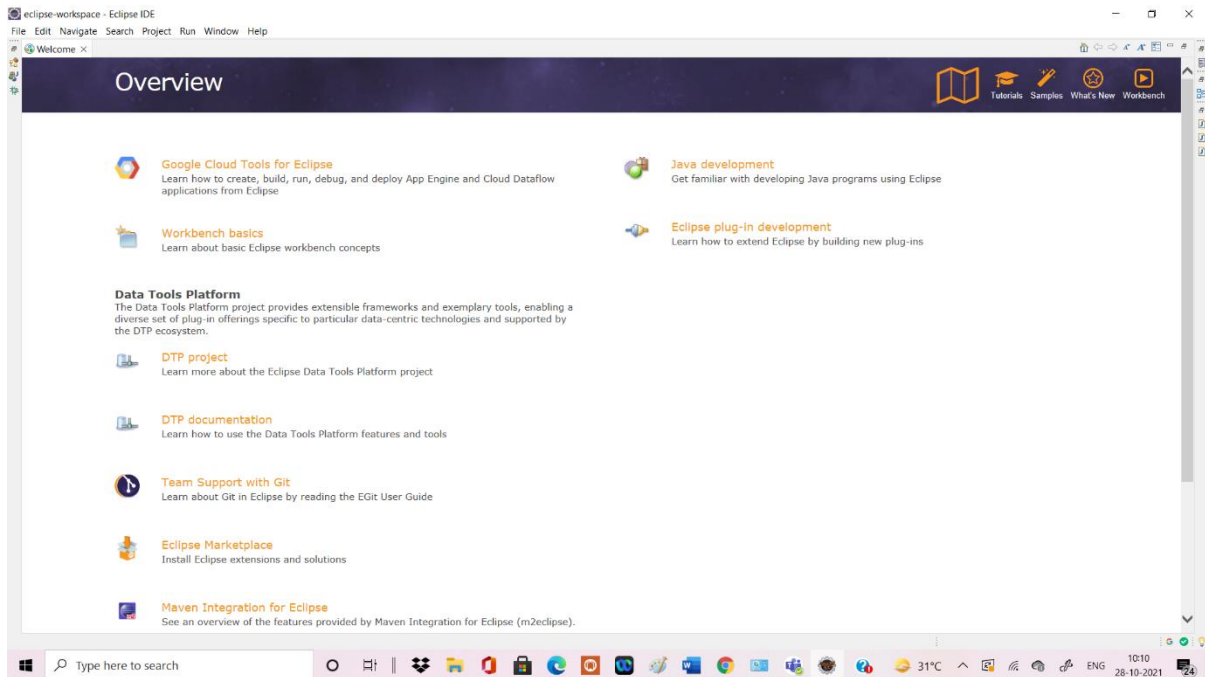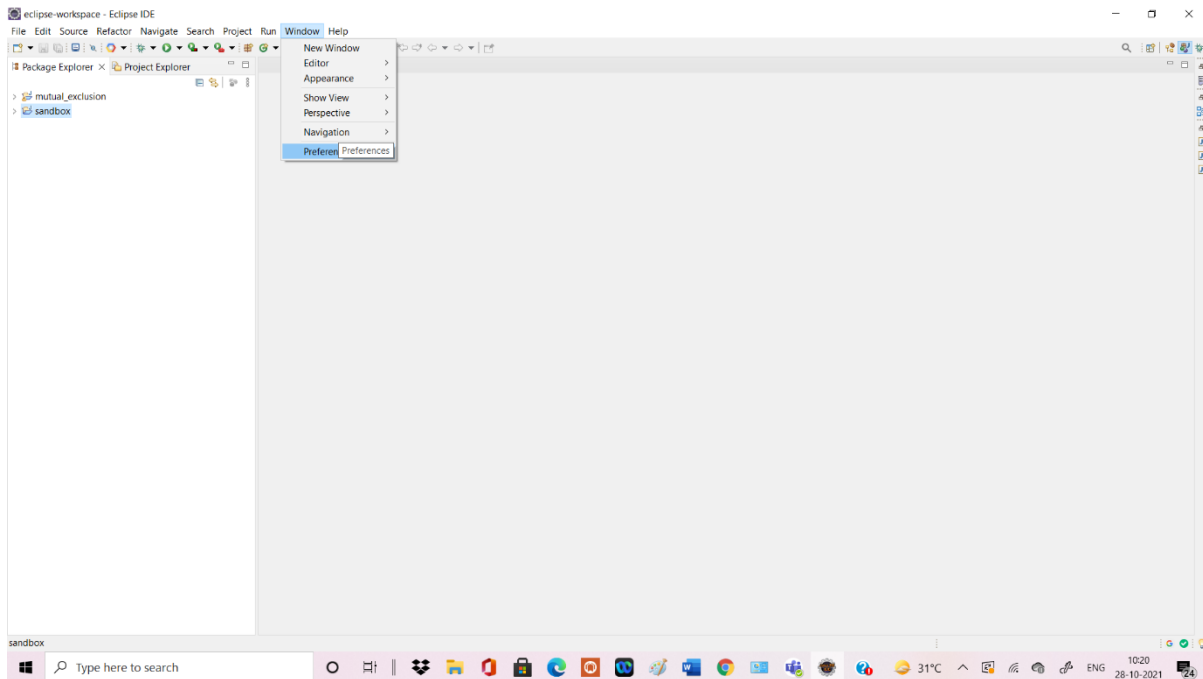Once the below window appear click on **trust selected**
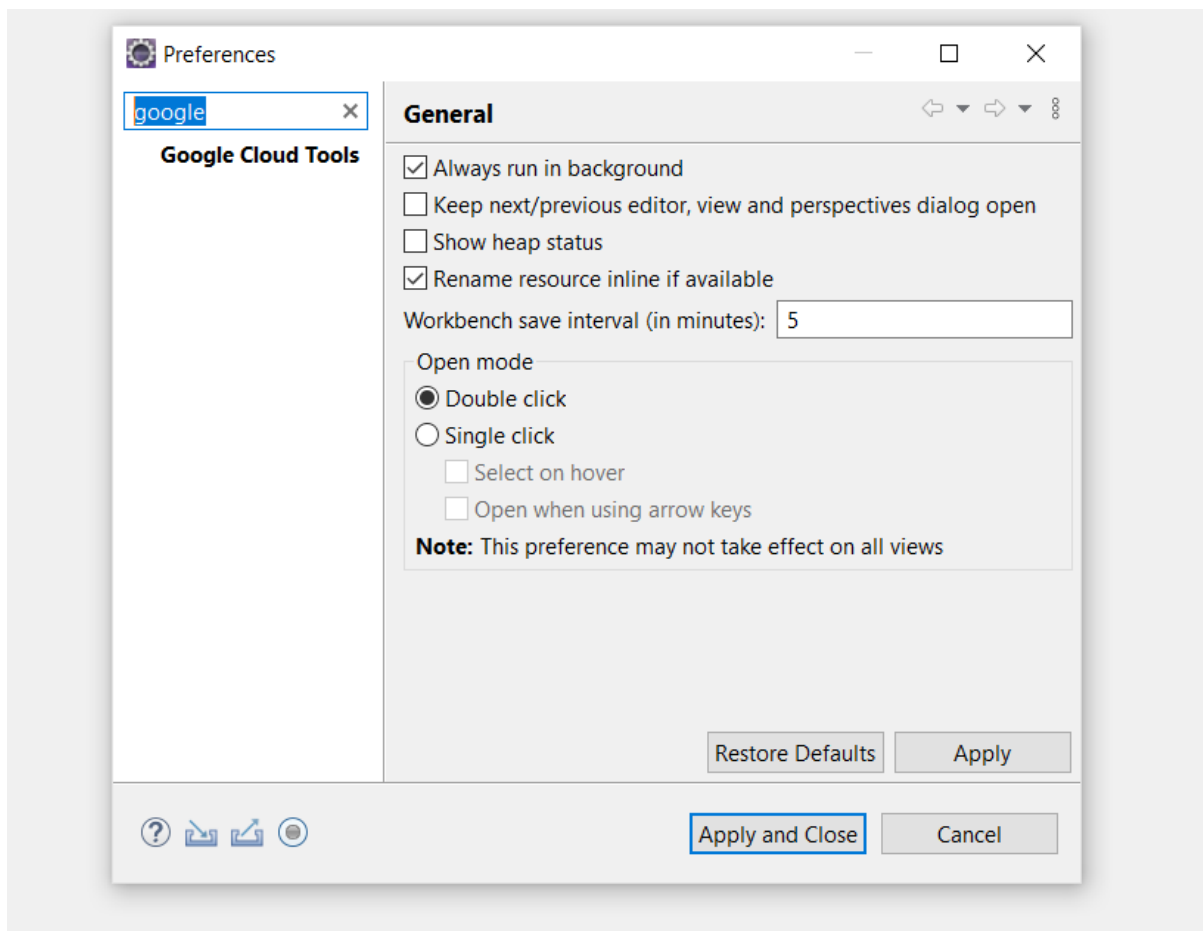

Click on restart now

Below window will appear

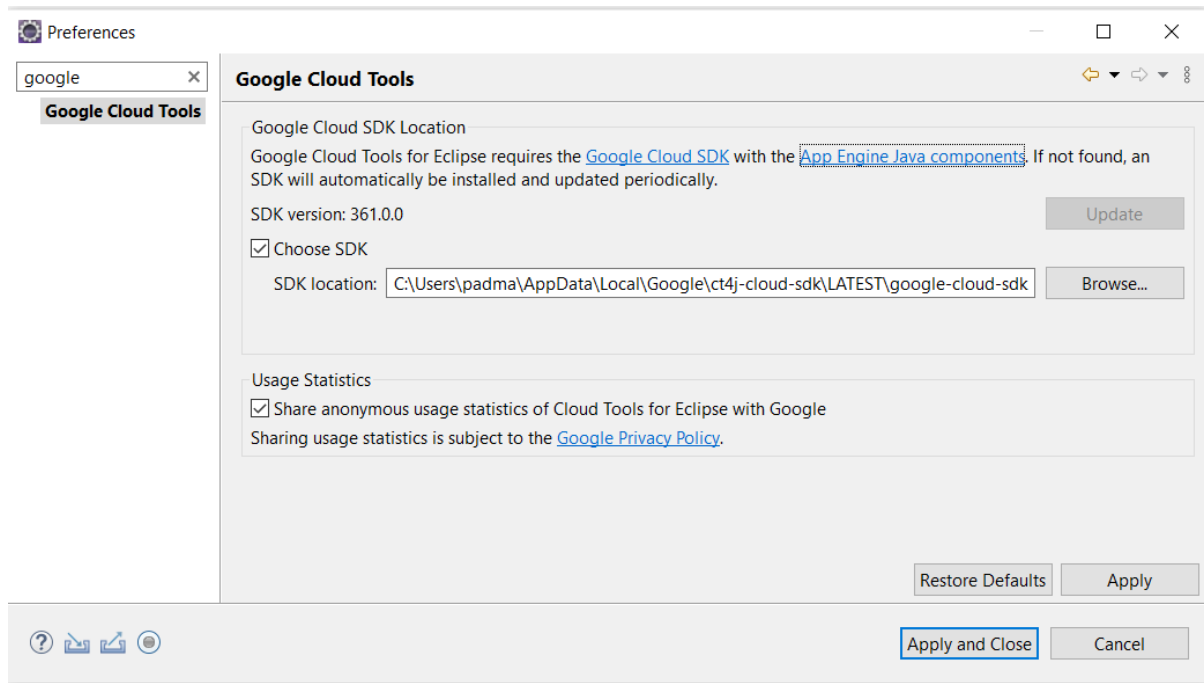

Below window will appear **close the welcome page**

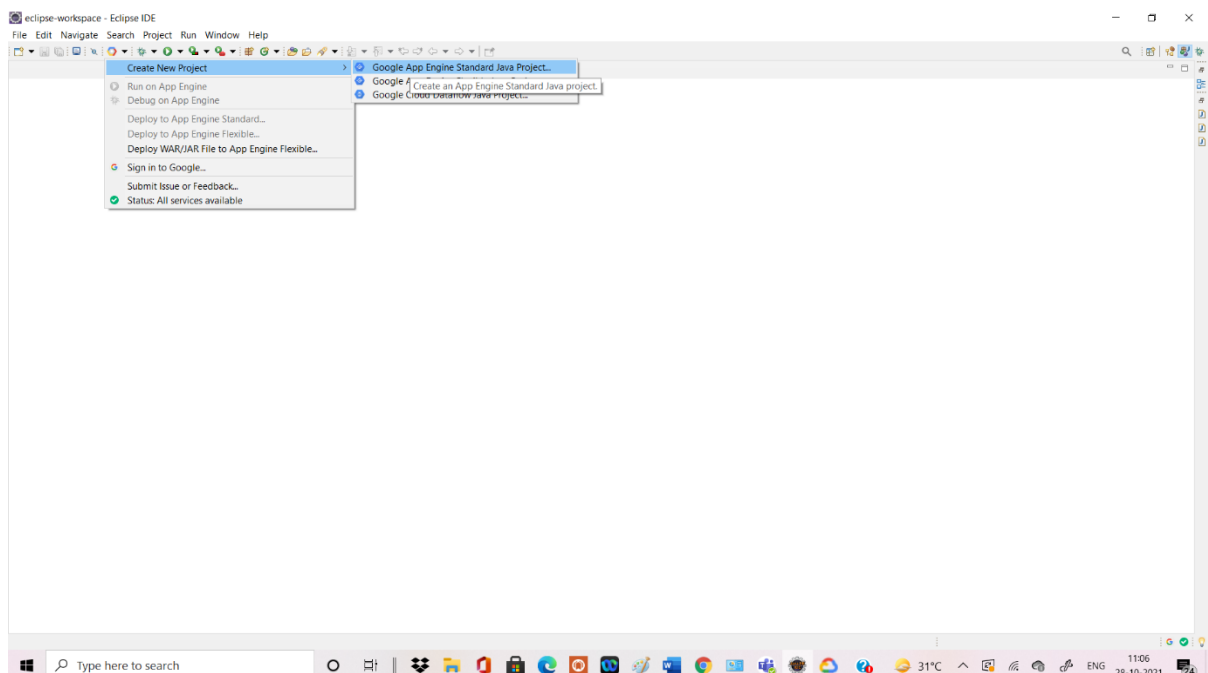Once the eclipse window appear -click on WINDOW->PREFERENCES

Below Preferences window will appear SEARCH FOR GOOGLE

Click for <mark>APP ENGINE JAVA COMPONENTS</mark> and click on <mark>APPLY AND CLOSE</mark>

In Eclipse workspace <mark>click on dropdown ->Click ->Create New Project->Google App Engine Standard Java Project.</mark>
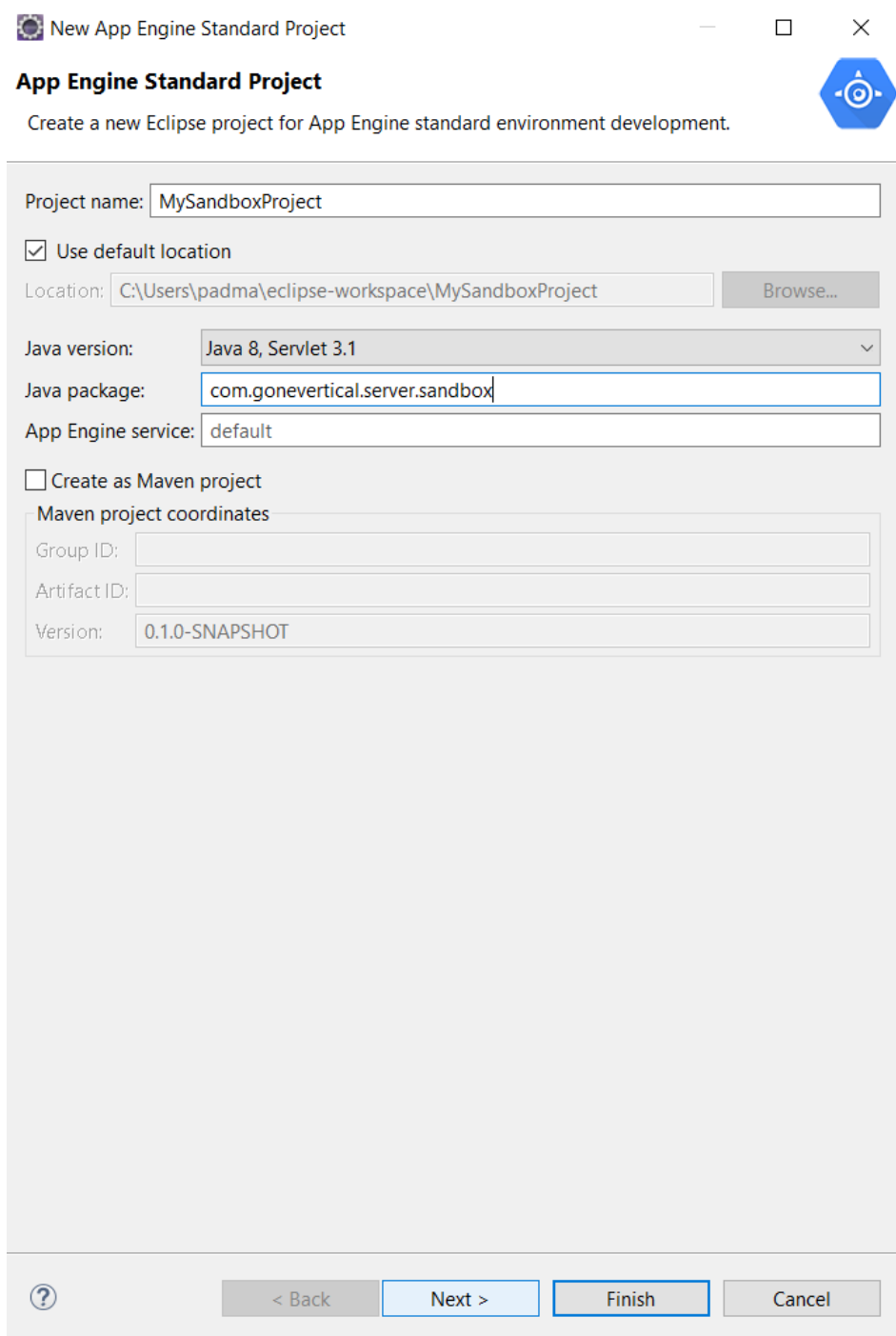
Below screen will appear New App Engine Standard Project

Provide the Project Name & Java Package as mentioned below

Project Name: My SandboxProject

Java Package: com.gonevertical.server.sandbox

Click on Next

Below screen will appear

FROM App Engine Standard Libraries

Select 1.App Engine API

 Select 2.Objectify

 3.Click on Finish

New App Engine Standard Project

Google Cloud Platform Libraries
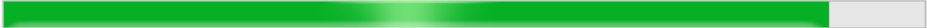
Additional jars for applications using Google Cloud Platform
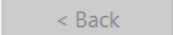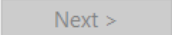
App Engine Standard Libraries
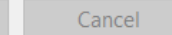
☑ App Engine API
☐ Google Cloud Endpoints
☑ Objectify

Cloud Client Libraries for Java

☐ BigQuery API
☐ BigQuery Data Transfer API
☐ Cloud Asset API
☐ Cloud Auto ML API
☐ Cloud Container Analysis API
☐ Cloud Data Loss Prevention
☐ Cloud Datastore
☐ Cloud DNS
☐ Cloud Firestore
☐ Cloud KMS
☐ Cloud Natural Language
☐ Cloud OS Login
☐ Cloud Pub/Sub
☐ Cloud Redis
☐ Cloud Resource Manager
☐ Cloud Scheduler
☐ Cloud Security Scanner
☐ Cloud Spanner
☐ Cloud Speech
☐ Cloud Storage
☐ Cloud Talent Solution
☐ Cloud Tasks
☐ Cloud Translation
☐ Cloud Video Intelligence
☐ Cloud Vision
☐ Dialogflow
☐ IoT Core
☐ Kubernetes
☐ Phishing Protection
☐ reCAPTCHA Enterprise
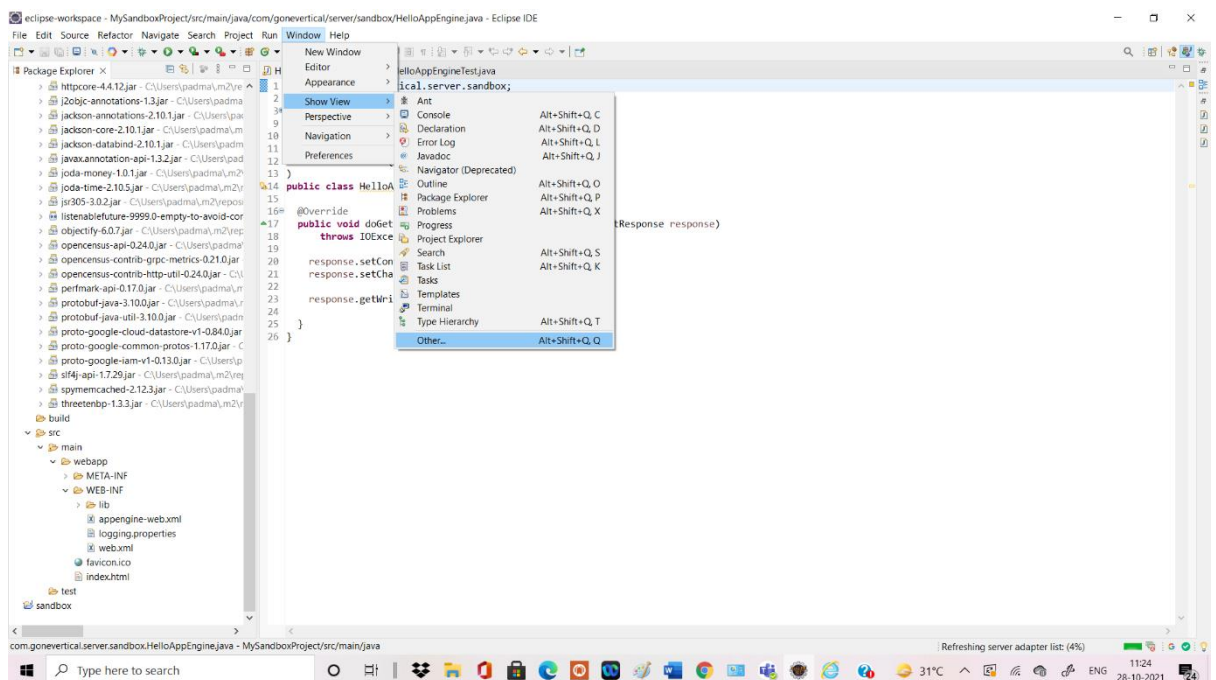
Installing App Engine Java Standard Environment facet...

< Back   Next >   Finish   Cancel

Below Screen will Appear <mark>HelloAppEngine.Java</mark>
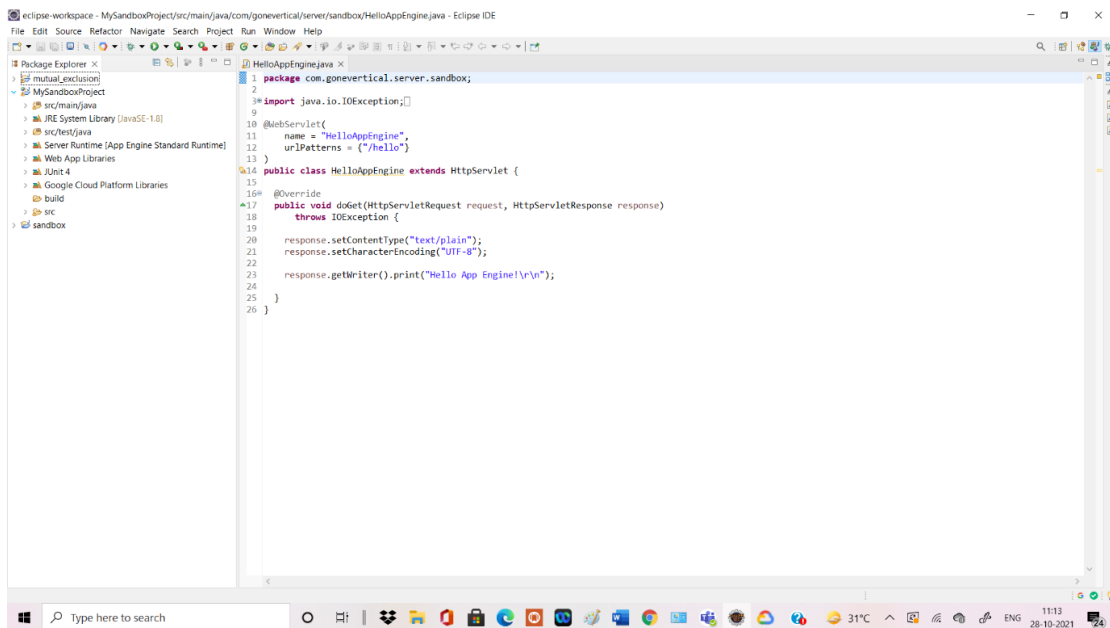
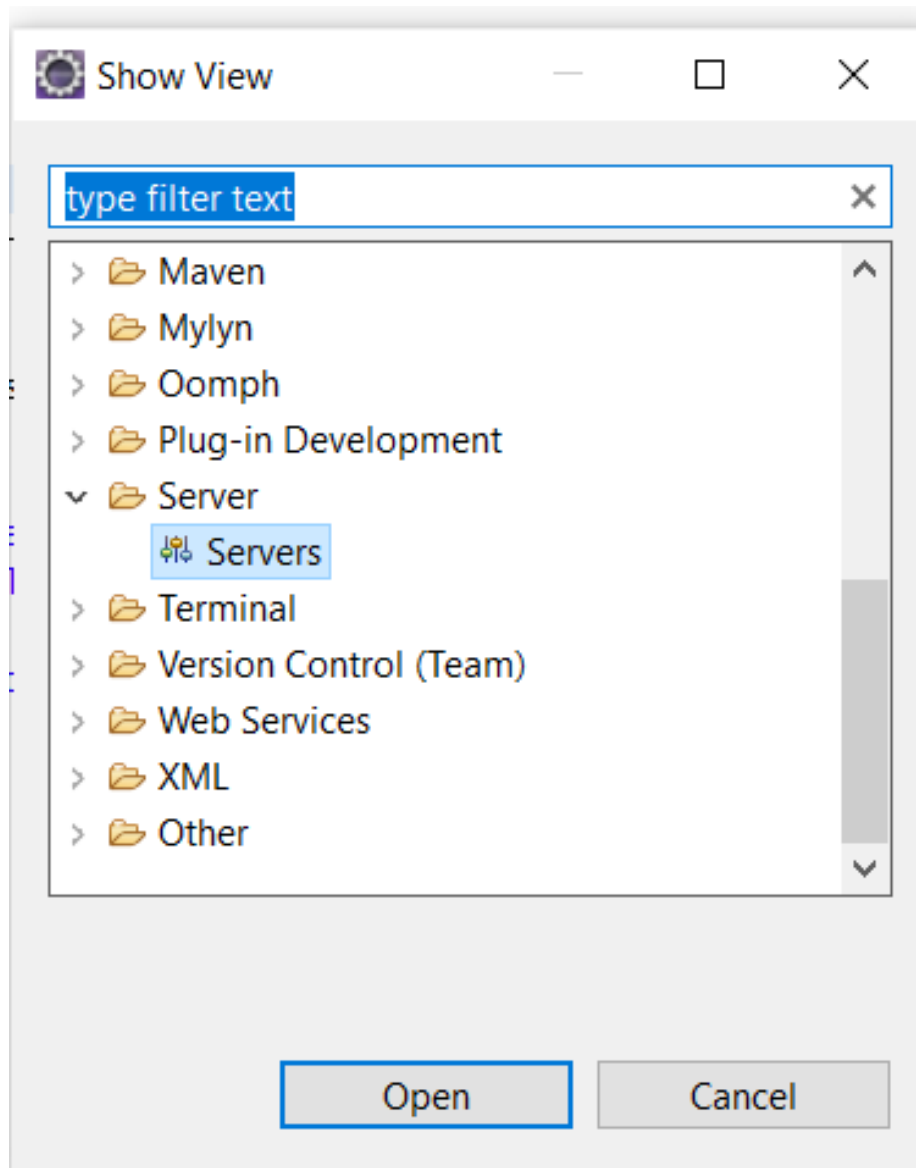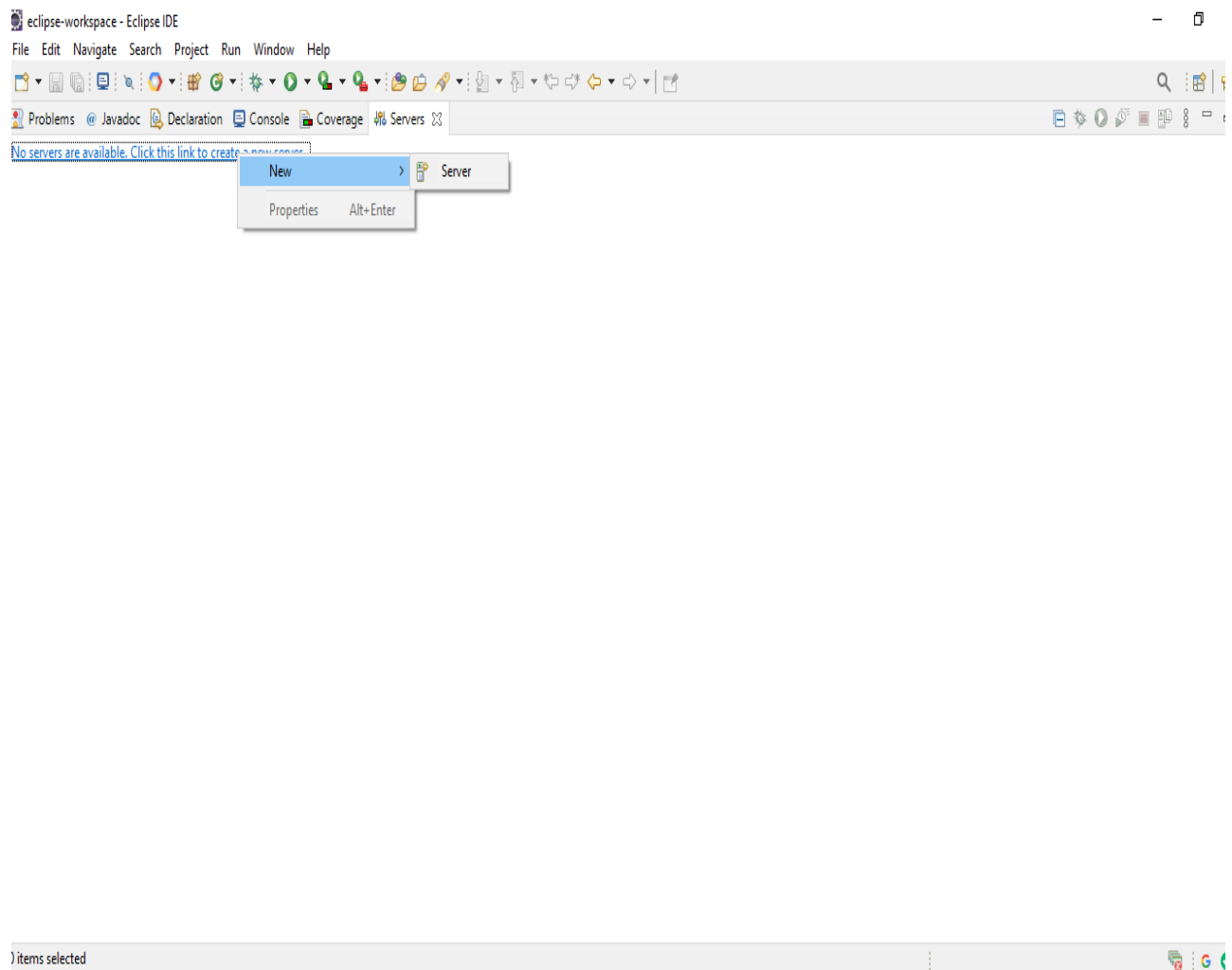
Go to <mark>**Window->Show View->Other**</mark>

After clicking on <mark>other</mark> below Screen of <mark>Show View</mark> will appear

1. <mark>Click on Server->Servers</mark>
2. <mark>Click on Open</mark>

Right click on server ->New->Server

To define a new server will below screen appear   1. Select <mark>App Engine Standard</mark> 2.<mark>Click on Next</mark> 3.<mark>Click on Finish</mark>

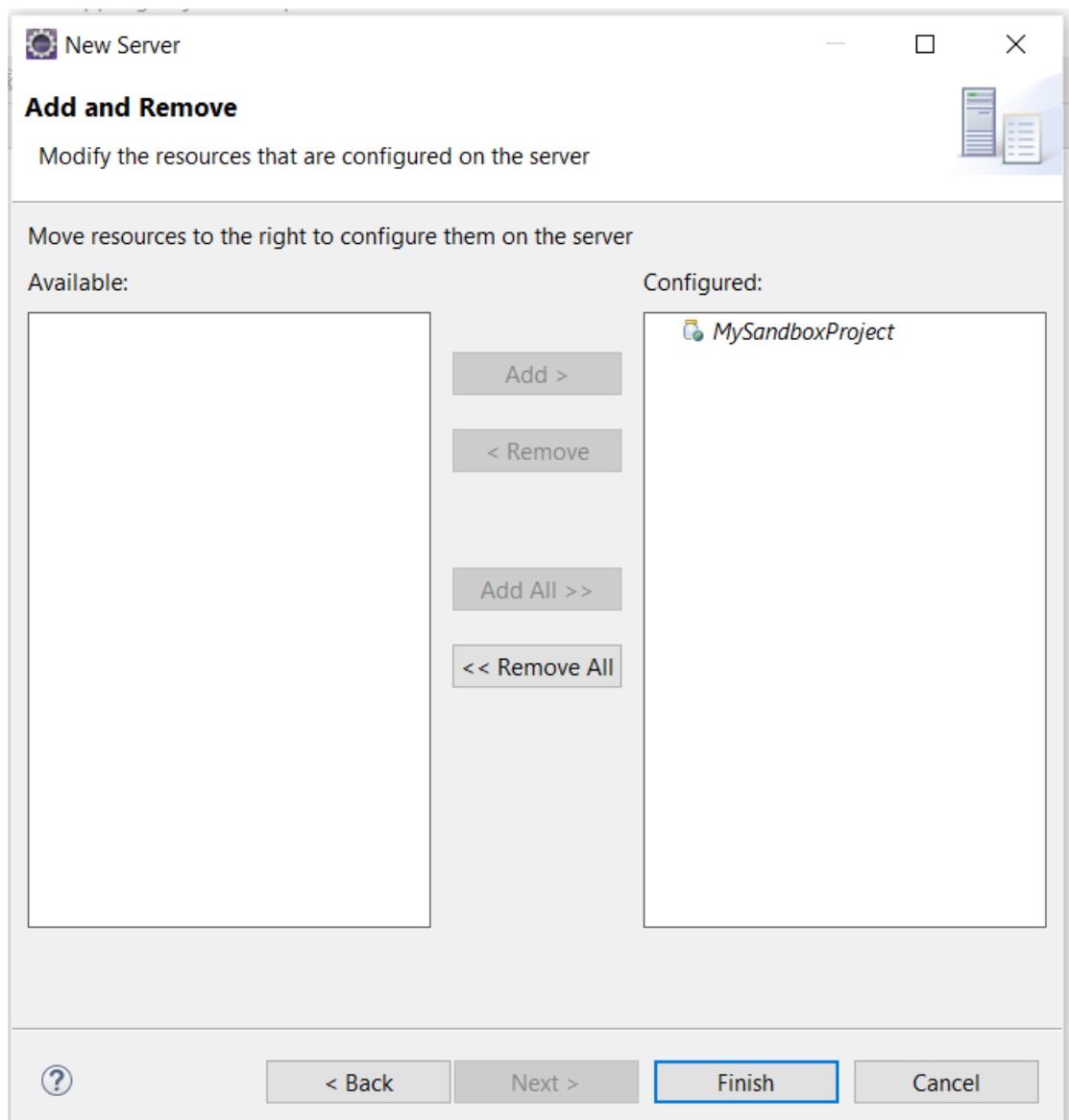**Select from Available Project: <mark>MySandboxProject</mark> and then <mark>click on Add Button</mark>**
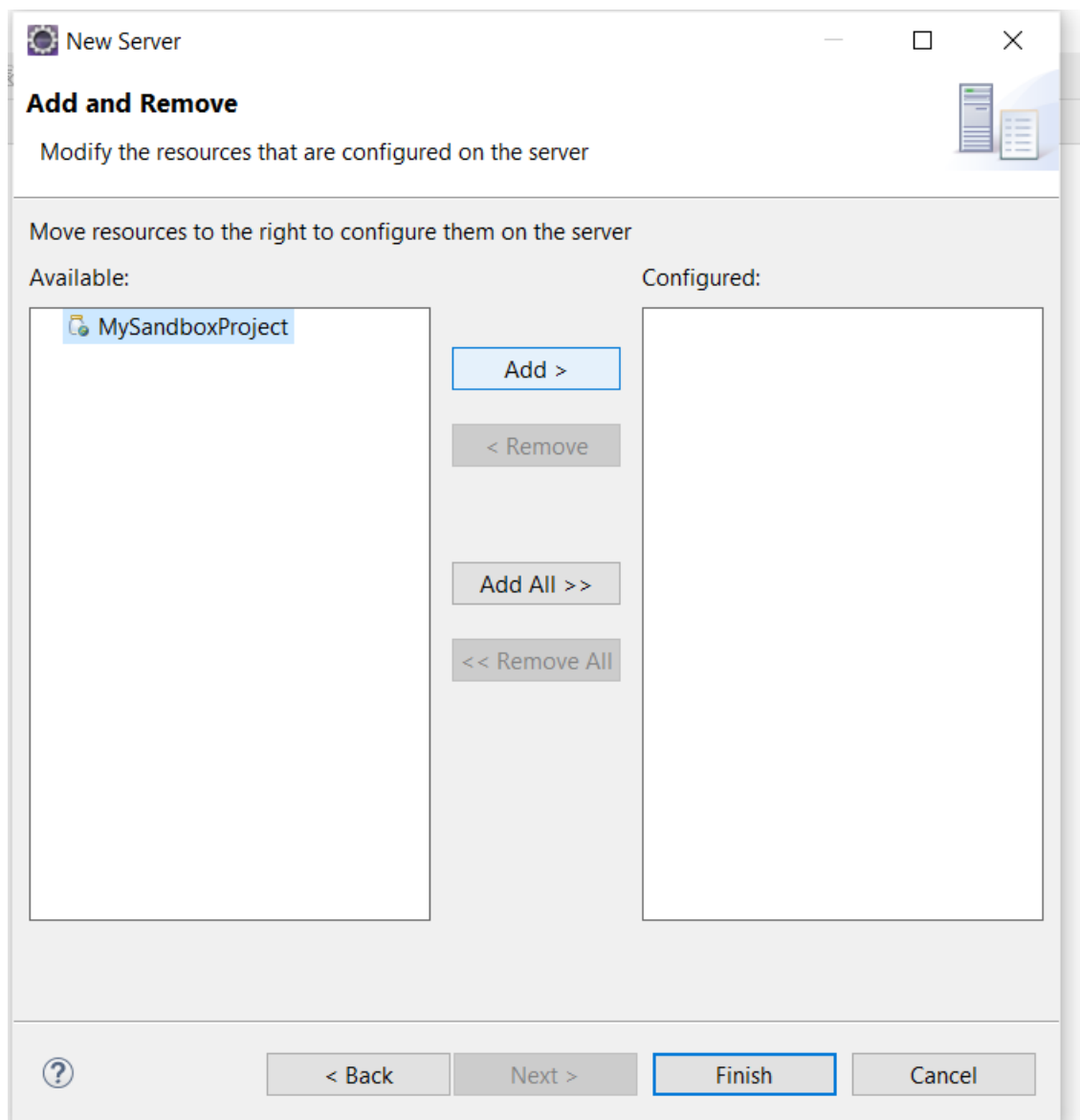
After adding <mark>MySandboxProject in Configured</mark> then <mark>Click on Finish Button</mark>

Click to Execute → App Engine Standard at Localhost

Final Output Screen will appear