EX.NO:07 REG.NO:210701298

CLOUD SIMULATION MODEL CLOUD ENVIRONMENT USING CLOUD SIM

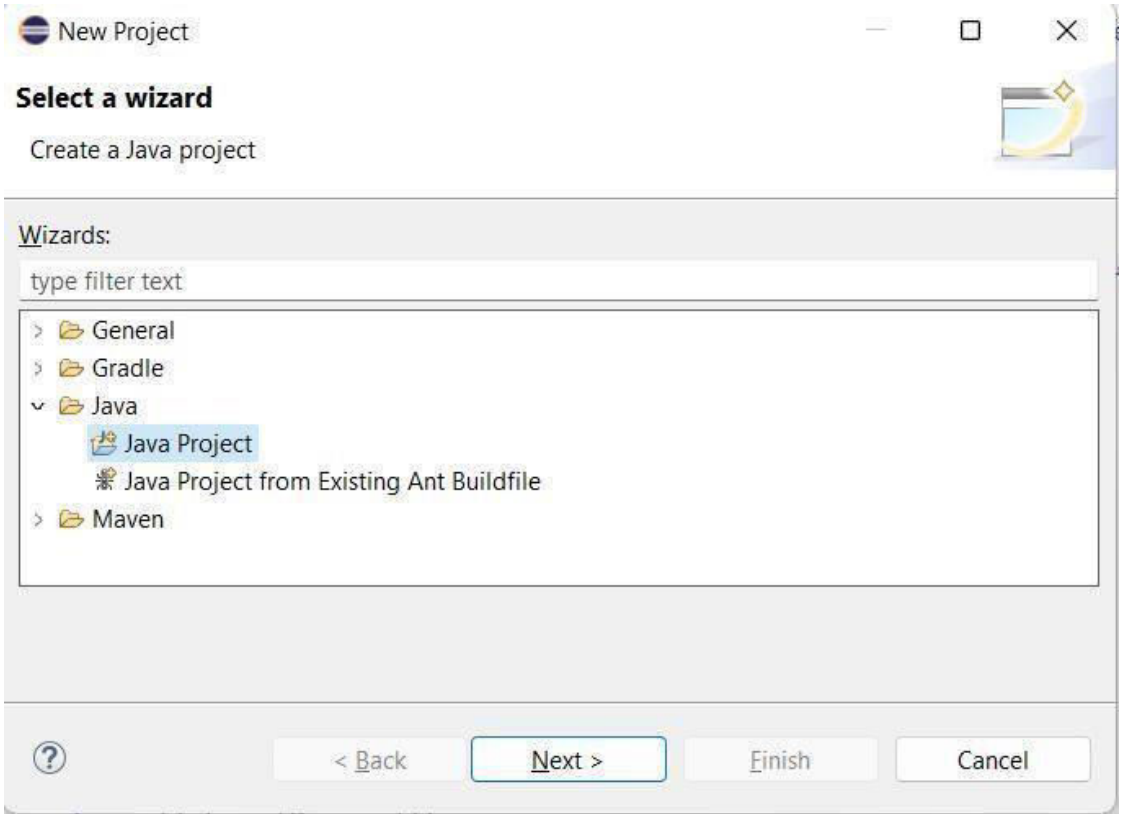
AIM:

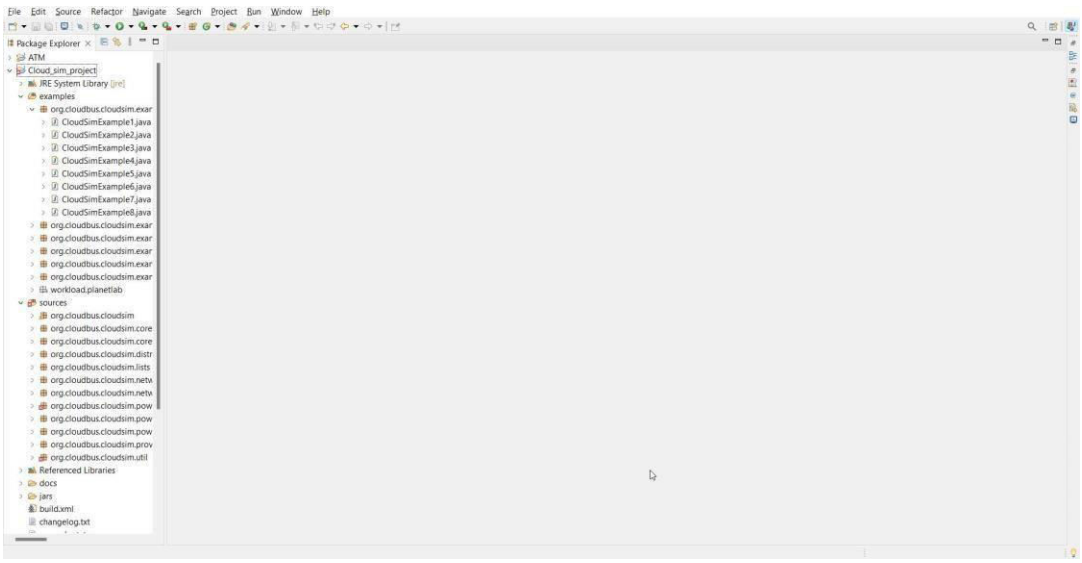
To model the cloud environment using cloud sim tools.

PROCEDURE:

1. Now within the Eclipse window navigate the menu: File -> New -> Project, to open the new project wizard.
2. Select the 'Java Project' from the window popup and click Next.
3. Unselect the 'Use default location' option and then click on 'Browse' to open the path where you have unzipped the Cloudsim project and finally click Next to set project settings.
4. Now select the example program from folder examples from the unzipped folder.
5. Run the sample program

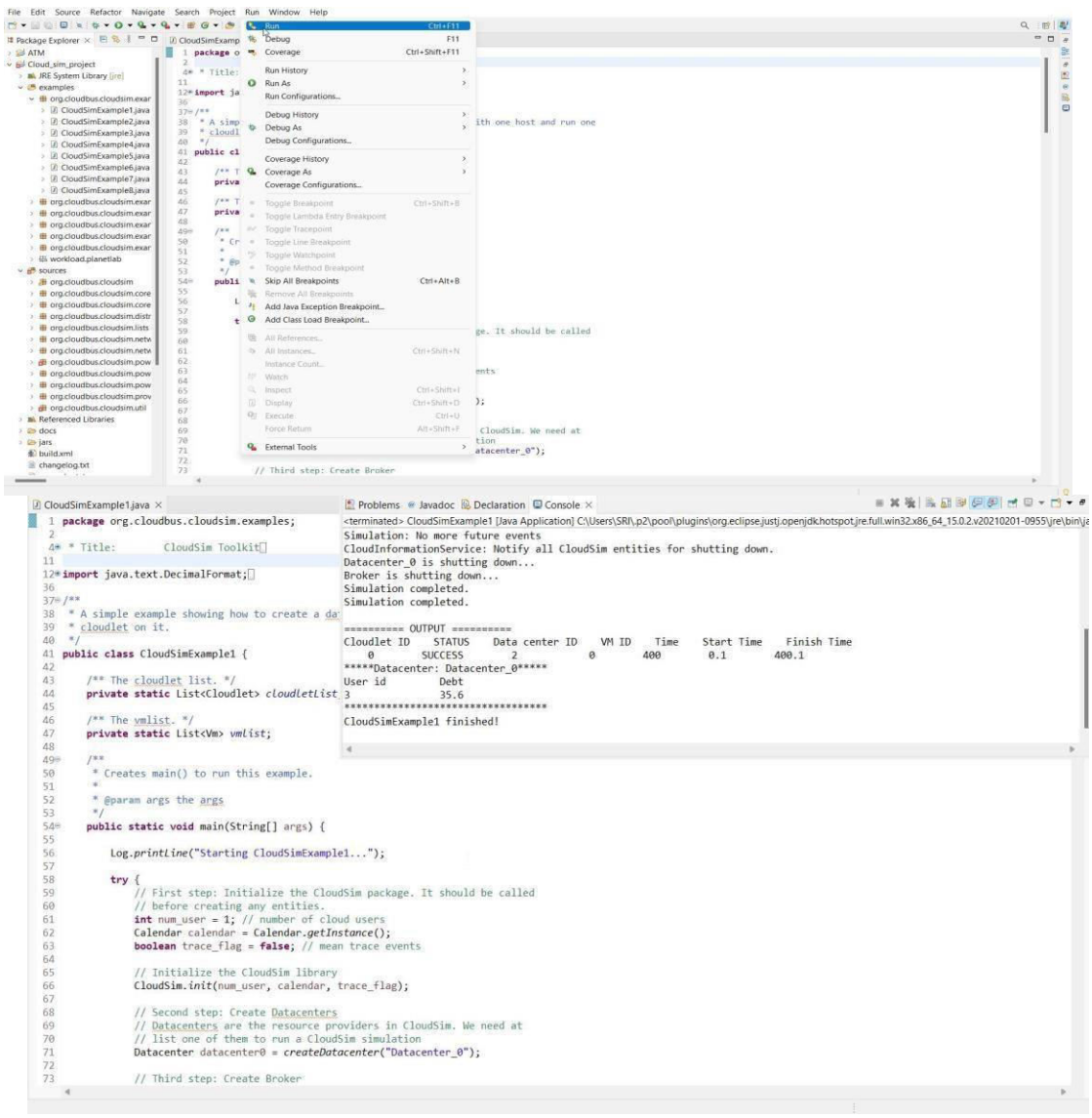
OUTPUT:





CloudSimExample1.java

```
1  package org.cloudbus.cloudsim.examples;
2
4* * Title:        CloudSim Toolkit
11
12*import java.text.DecimalFormat;
36
37*/**
38 * A simple example showing how to create a datacenter with one host and run one
39 * cloudlet on it.
40 */
41 public class CloudSimExample1 {
42
43     /** The cloudlet list. */
44     private static List<Cloudlet> cloudletList;
45
46     /** The vmlist. */
47     private static List<Vm> vmlist;
48
49*    /**
50     * Creates main() to run this example.
51     *
52     * @param args the args
53     */
54*    public static void main(String[] args) {
55
56         Log.printLine("Starting CloudSimExample1...");
57
58         try {
59             // First step: Initialize the CloudSim package. It should be called
60             // before creating any entities.
61             int num_user = 1; // number of cloud users
62             Calendar calendar = Calendar.getInstance();
63             boolean trace_flag = false; // mean trace events
64
65             // Initialize the CloudSim library
66             CloudSim.init(num_user, calendar, trace_flag);
67
68             // Second step: Create Datacenters
69             // Datacenters are the resource providers in CloudSim. We need at
70             // list one of them to run a CloudSim simulation
71             Datacenter datacenter0 = createDatacenter("Datacenter_0");
72
73             // Third step: Create Broker
```



RESULT:

Thus, the cloud environment was modeled using the cloud sim tool and eclipse.