

Exp No: 7

Date :

CLOUD SIMULATION

MODEL CLOUD ENVIRONMENT USING CLOUD SIM

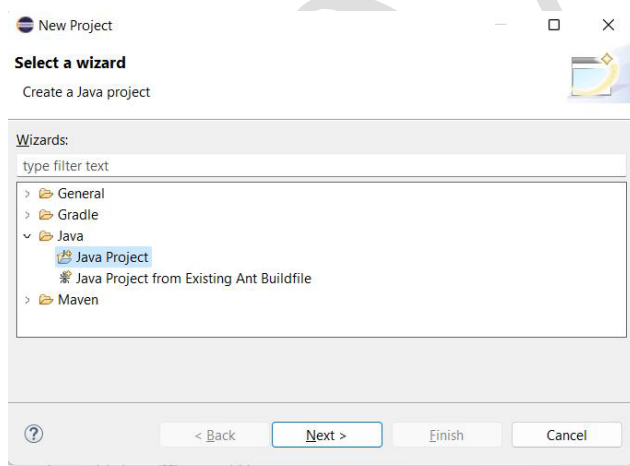
AIM:

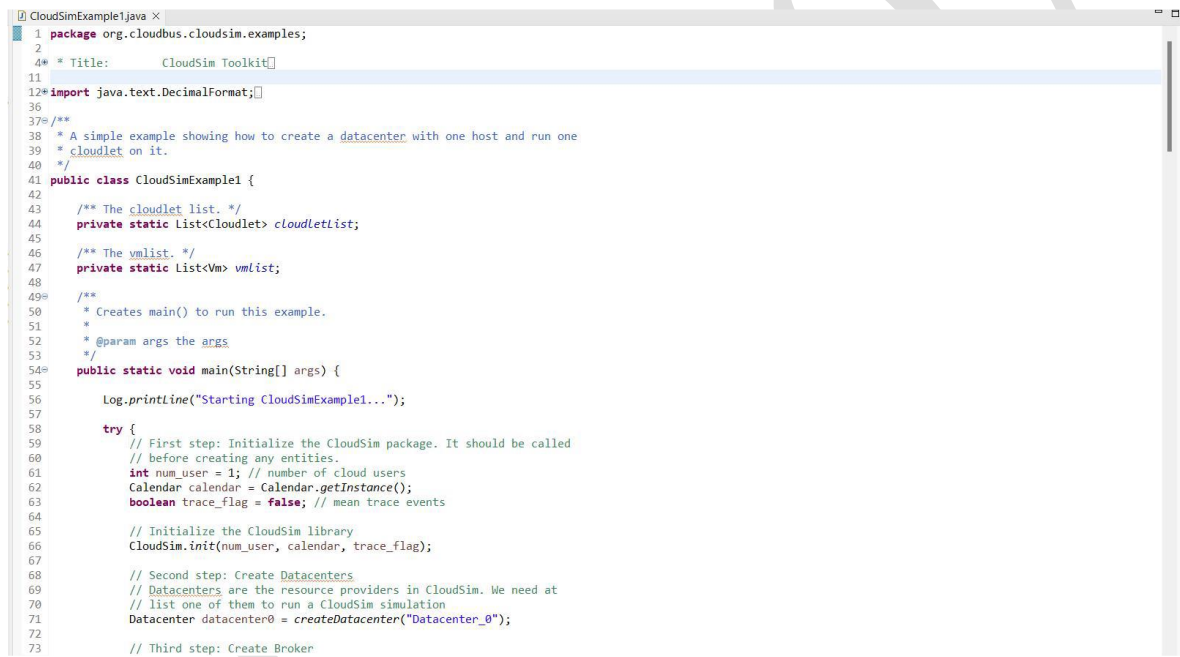
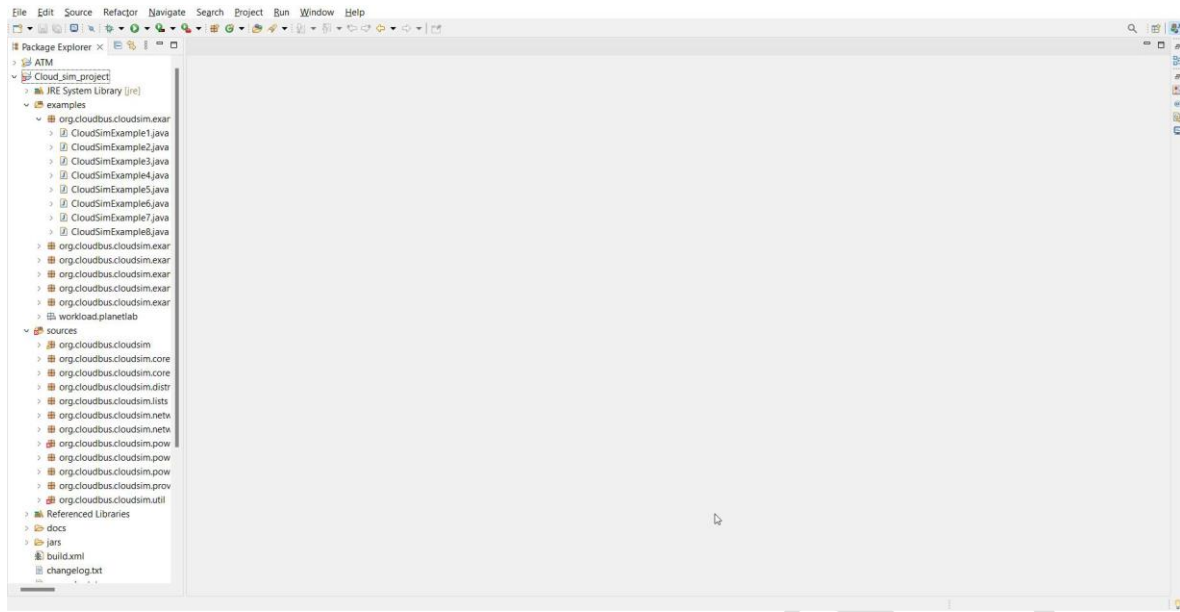
To model the cloud environment using cloud sim tools.

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:





The screenshot shows the Eclipse IDE with the file `CloudSimExample1.java` open. The code defines a package `org.cloudbus.cloudsim.examples` and a class `CloudSimExample1`. The class contains a `main` method that initializes the CloudSim environment, creates a datacenter, and runs a simulation. The console output shows the simulation progress and completion.

```
1 package org.cloudbus.cloudsim.examples;
2
3
4 * Title: CloudSim Toolkit[]
5
6
7
8
9
10
11
12 import java.text.DecimalFormat;
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
```

```
<terminated> CloudSimExample1 [Java Application] C:\Users\SRI\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_15.0.2.v20210201-0955\jre\bin\java.exe
Simulation: No more future events
CloudInformationService: Notify all CloudSim entities for shutting down.
Datacenter_0 is shutting down...
Broker is shutting down...
Simulation completed.
Simulation completed.

===== OUTPUT =====
Cloudlet ID   STATUS   Data center ID   VM ID   Time   Start Time   Finish Time
0            SUCCESS    2              0       400     0.1          400.1
****Datacenter: Datacenter_0****
User id      Debt
3            35.6
*****
CloudSimExample1 finished!
```

RESULT:

Thus, the cloud environment using cloud sim tools has been modelled.