## Ex.No - 05

# Installation and Configuration of CloudSim in Eclipse IDE

#### AIM:

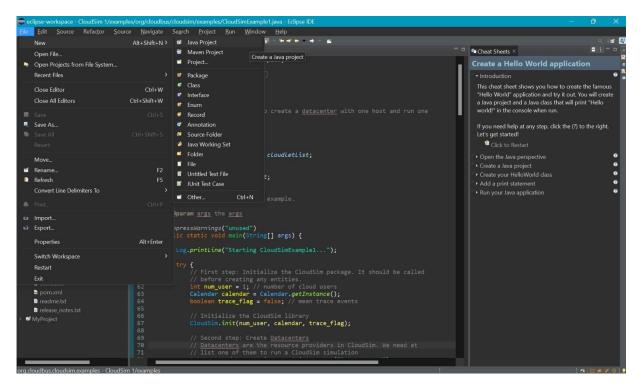
To install and configure the CloudSim in Eclipse IDE and run a java program in it.

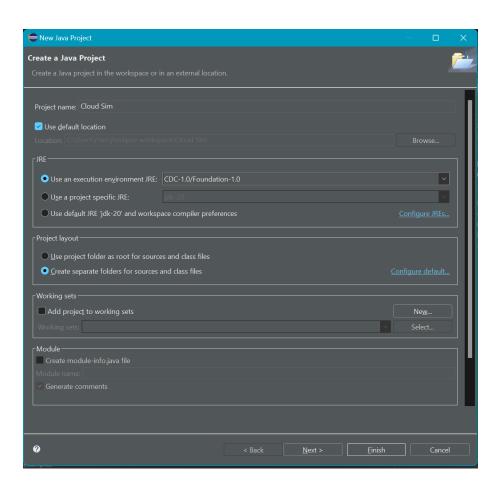
### PROCEDURE:

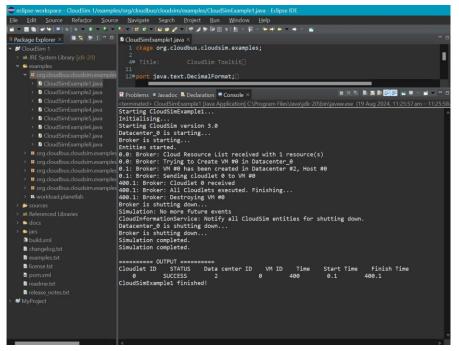
- 1. Java Installation:
  - a. Check Java in your system.
  - b. If Java not installed then download Java.
  - c. Install Java setup.
  - d. Set the path for Java in Environment Variables.
- 2. Download Cloud Sim and Additional JAR file:
  - a. Download CloudSim 3.0.3
  - b. Download common math 3 JAR file
- 3. Eclipse IDE Installation:
  - a. Download the correct version of Eclipse IDE for your system.
  - b. Install Eclipse IDE.
- 4. Run Cloud Sim in Eclipse:
  - a. Put the common math 3 JAR file in the JAR folder of CloudSim.
  - b. Build a new java project with CloudSim folder.

#### **OUTPUT:**









```
😌 \Xi 🕇 🌣 — 🌀 CloudSimExample1.java 🗴 🌀 PowerVmSelectionPolicyMaximumCorrelation.java
■ Project ▼

✓ In cloudsim-3.0.3 [cloudsim-toolkit] ~/cloud 35

                                                  import org.cloudbus.cloudsim.provisioners.RamProvisionerSimple;
  > 🖿 .idea
  > ladocs

✓ ■ examples

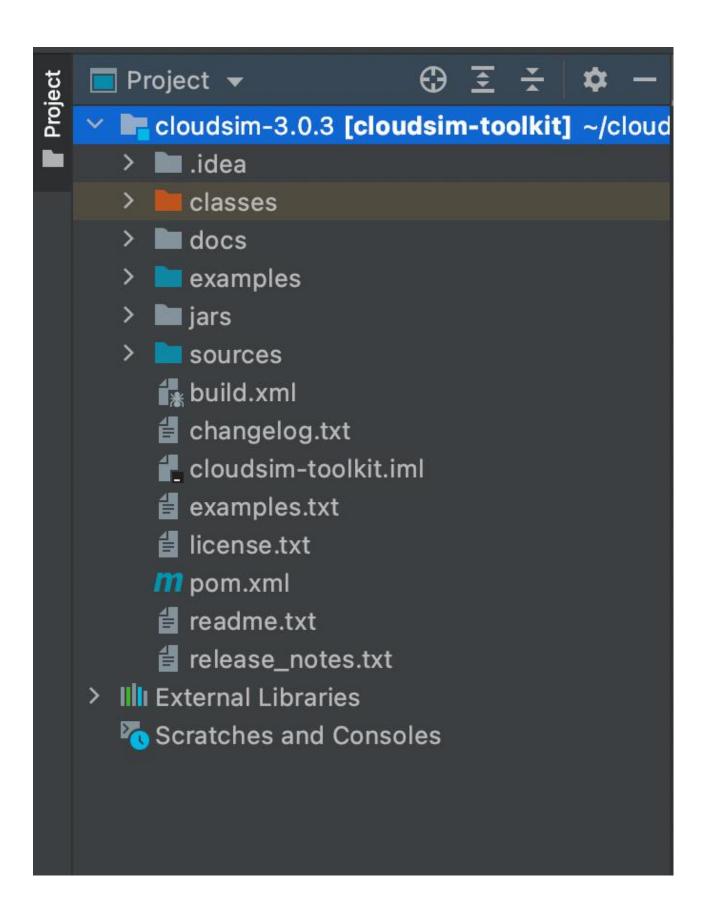
✓ □ org.cloudbus.cloudsim.examples

       > network
                                                 nublic class CloudSimExample1 {
      > 🗖 power
                                                                                                  ^☆R
                                                 Run 'CloudSimExample1.main()
         © CloudSimExample1
                                                 Debug 'CloudSimExample1.main()'
         © CloudSimExample3
         CloudSimExample4
                                              Run 'CloudSimExample1.main()' with 'Java Flight Recorder'
                                                 Modify Run Configuration...
         © CloudSimExample7
         © CloudSimExample8
    > to workload.planetlab
     build.xml
     d changelog.txt
     cloudsim-toolkit.iml
     examples.txt
                                                      public static void main(String[] args) {
```

```
🕀 👱 🕏 🗘 – 🌀 CloudSimExample1.java × 🌀 PowerVmSelectionPolicyMaximumCorrelation.java
  cloudsim-3.0.3 [cloudsim-toolkit] ~/cloud 35
  > 🖿 .idea
  > docs

✓ □ org.cloudbus.cloudsim.examples

      > network
       Starting CloudSimExample1...
   Datacenter_0 is starting...
       Broker is starting...
   =
       Entities started.
==
       0.0: Broker: Trying to Create VM #0 in Datacenter_0
       0.1: Broker: VM #0 has been created in Datacenter #2, Host #0 \,
       0.1: Broker: Sending cloudlet 0 to VM #0
       400.1: Broker: Cloudlet 0 received
       400.1: Broker: All Cloudlets executed. Finishing...
       Broker is shutting down...
       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
                                                                   0.1
       CloudSimExample1 finished!
       Process finished with exit code \theta
```



| RESULT:  Thus, the installation and configuration of CloudSim in Eclipse IDE has been successfully completed. |
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