

## Cloud Computing Tutorial 4 – CloudSim

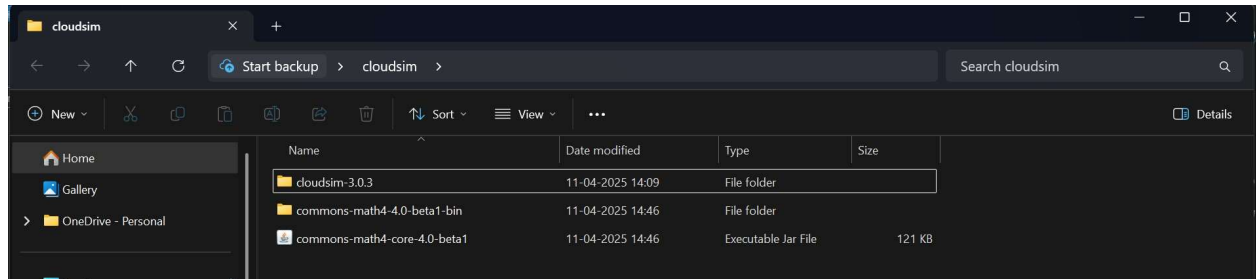
### Bhanu Prakash M – IBM22CS067

Step 1 - Download JDK from Oracle website.

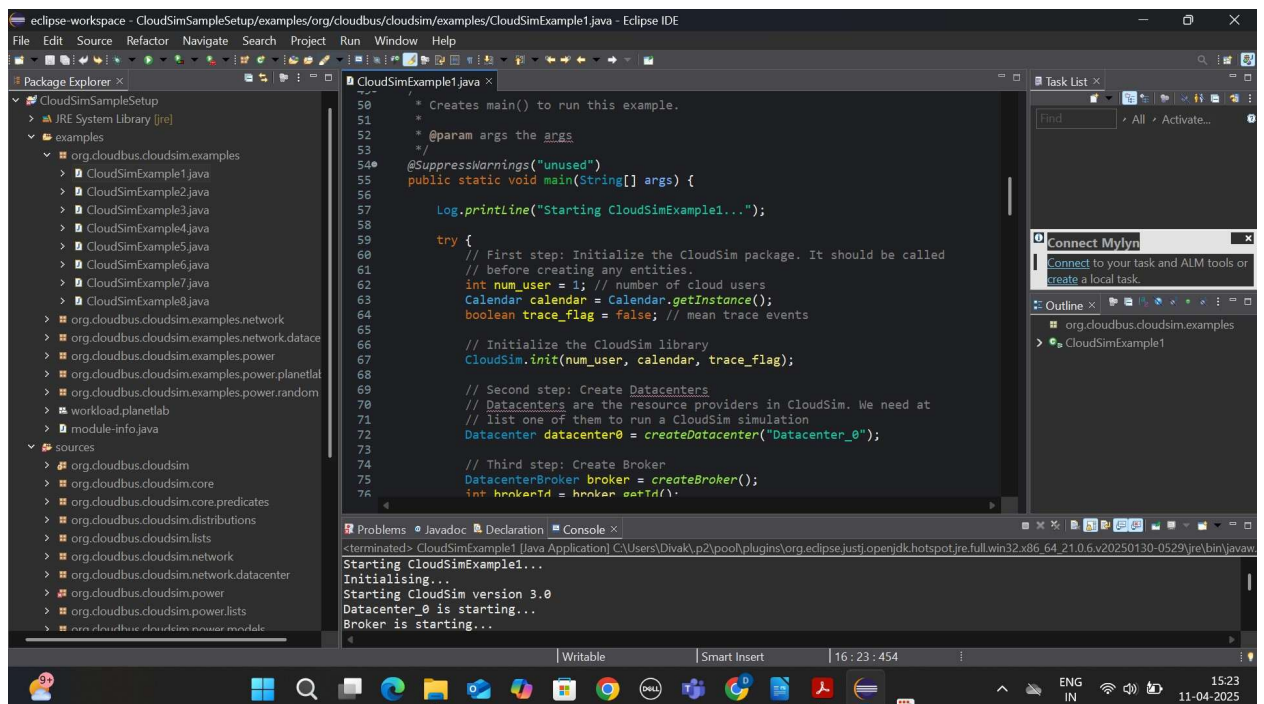
Step 2 - Download a Code Editor.

Step 3 - Install Java Debugger.

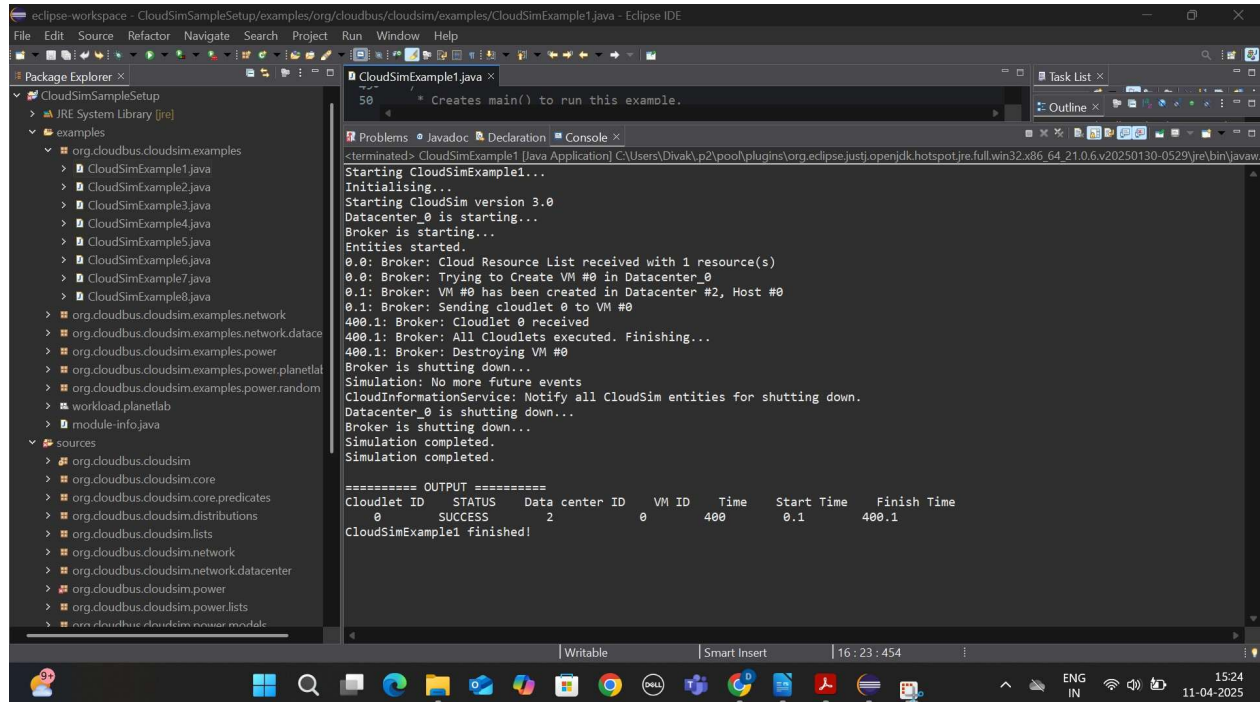
Step 4 - CloudSim is open source hence download the code files from <https://github.com/Cloudslab/cloudsim> and extract them.



Step 5 - We see numerous Cloud Simulation example files under cloudsim-examples.



Step 6 - On running a cloud simulation example we obtain the following output.



```
<terminated> CloudSimExample1 [Java Application] C:\Users\Divak\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.21.0.6.v20250130-0529\jre\bin\java.exe
Starting CloudSimExample1...
Initialising...
Starting CloudSim version 3.0
Datacenter_0 is starting...
Broker is starting...
Entities started.
0.0: Broker: Cloud Resource List received with 1 resource(s)
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...
400.1: Broker: Destroying VM #0
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            SUCCESS   2                0       400    0.1          400.1
CloudSimExample1 finished!
```