

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 Cloud Sim 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:

New Java Project

Create a Java Project

Discouraged module name. By convention, module names usually start with a lowercase letter

Project name: CloudSimPractice

☐ Use default location

Location: C:\Users\Haresh\Downloads\cloudsim-4.0\cloudsim-4.0 [Browse...](#)

JRE

- ☒ Use an execution environment JRE: JavaSE-20 [Configure JREs...](#)
- ☐ Use a project specific JRE: jdk-20
- ☐ Use default JRE 'jdk-20' and workspace compiler preferences

Project layout

- ☐ Use project folder as root for sources and class files
- ☒ Create separate folders for sources and class files [Configure default...](#)

Working sets

☐ Add project to working sets [New...](#)

Working sets: [Select...](#)

Module

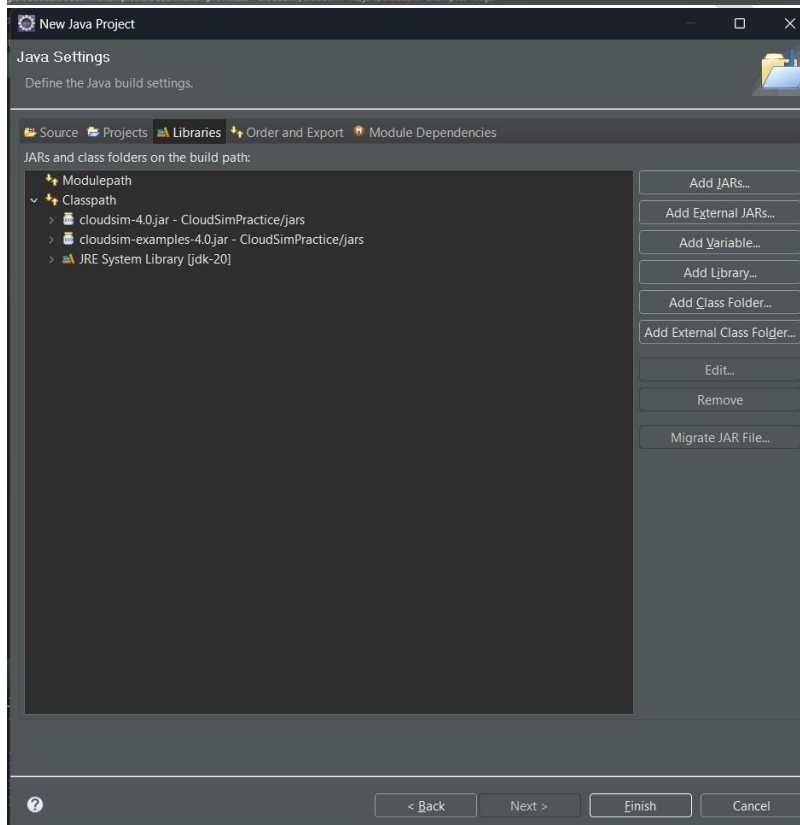
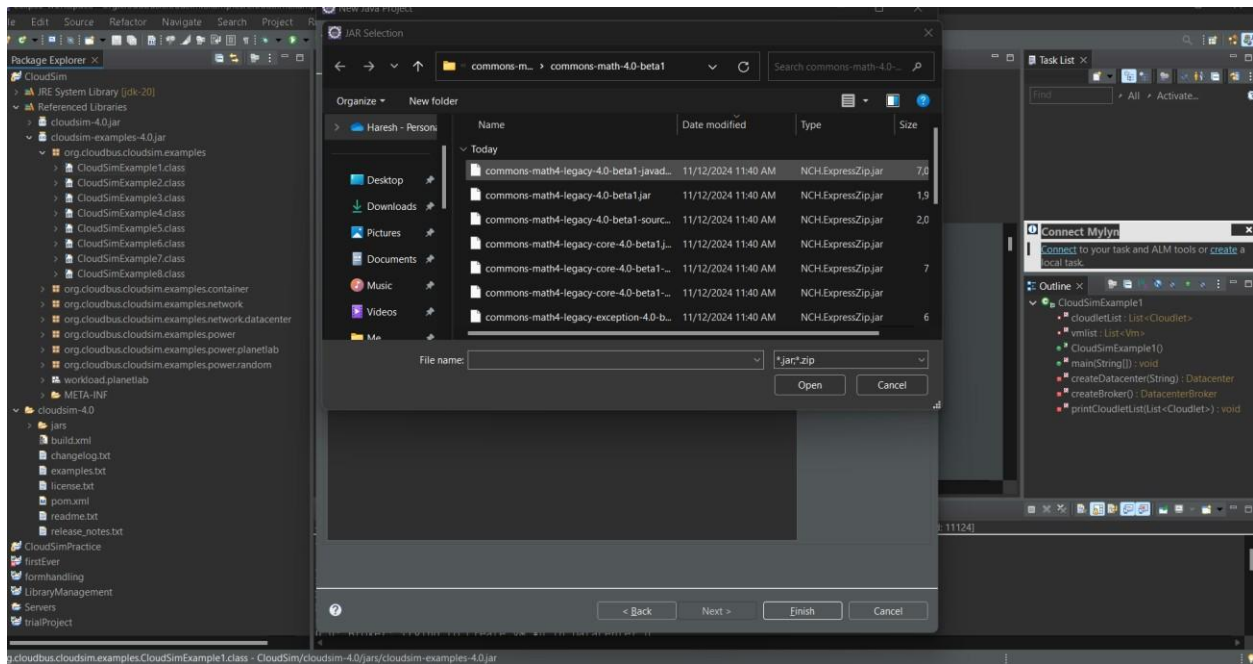
☒ Create module-info.java file

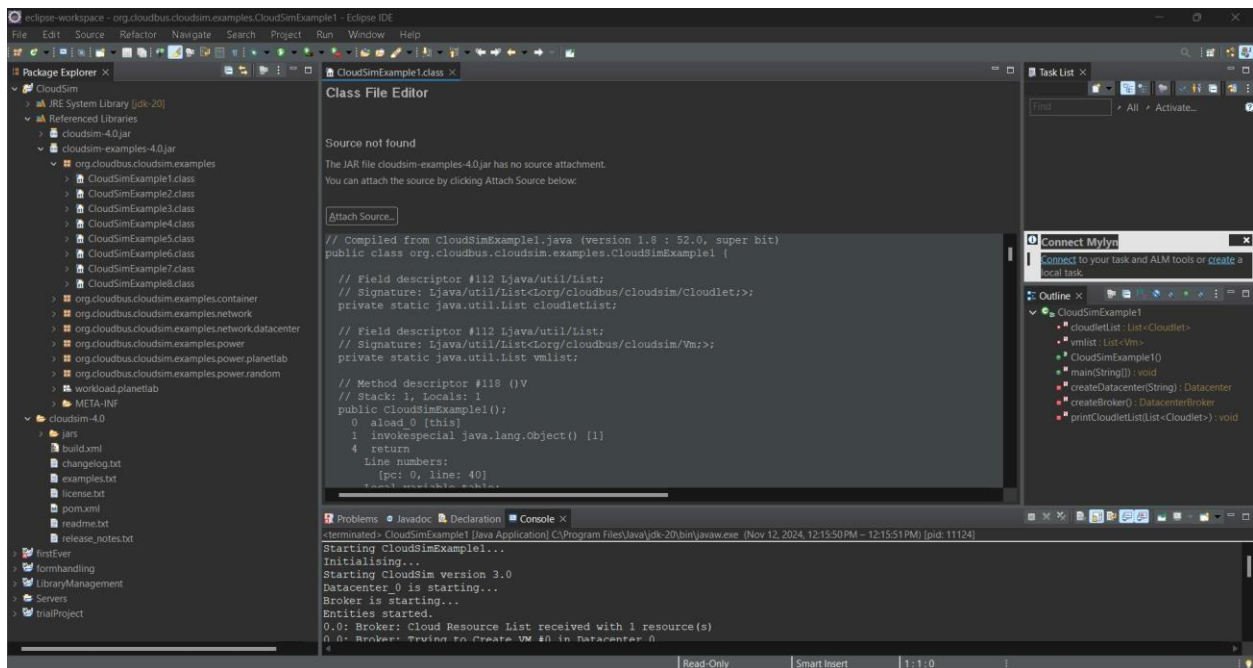
Module name:

☒ Generate comments

module name will be "CloudSimPractice" (if no module is specified, then project name will be used as module name)

? < Back Next > Finish Cancel





```

<terminated> CloudSimExample1 [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Nov 12, 2024, 12:15:50 PM - 12:15:51 PM) [pid: 11124]
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!

```

RESULT:

Cloud environment has been successfully modelled using cloud sim tools.

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