

## Installation and Configuration of CloudSim in Eclipse IDE

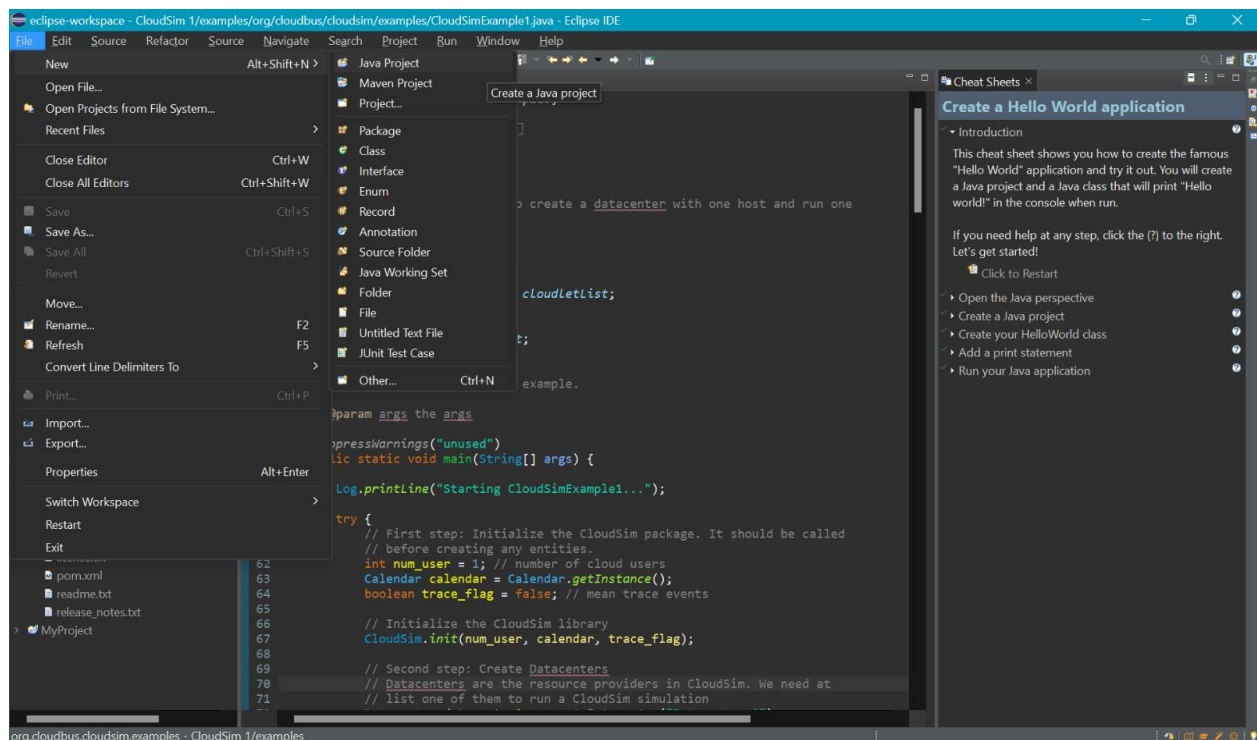
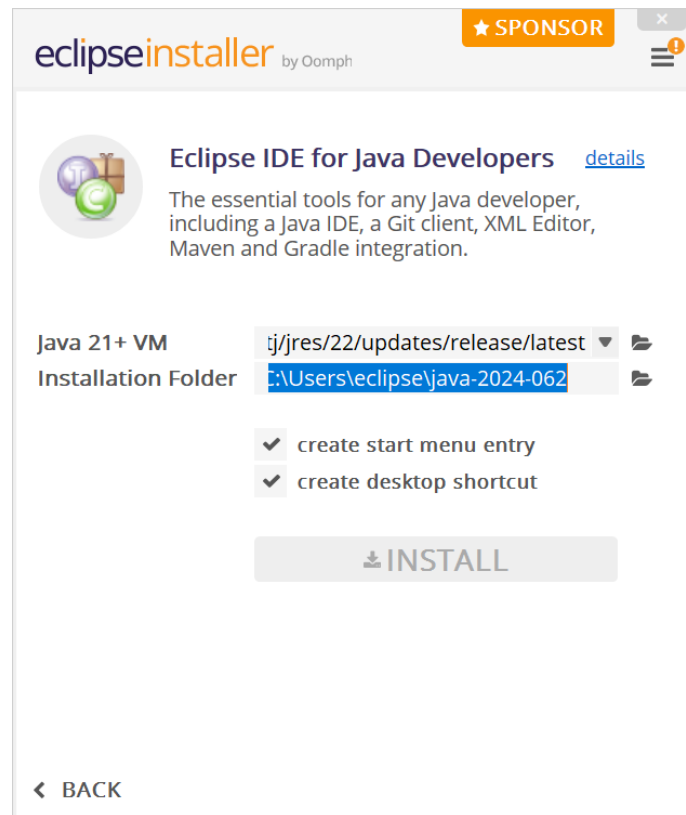
### AIM:

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:



New Java Project

Create a Java Project

Create a Java project in the workspace or in an external location.

Project name: Cloud Sim

☒ Use default location

Location: C:\Users\merc\workspace\Cloud Sim

Browse...

JRE

☒ Use an execution environment JRE: CDC-1.0/Foundation-1.0

☐ Use a project specific JRE: jdk-20

☐ Use default JRE 'jdk-20' and workspace compiler preferences

Configure JREs...

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

Working sets:

New...

Select...

Module

☐ Create module-info.java file

Module name:

☒ Generate comments

< Back

Next >

Finish

Cancel

eclipse-workspace - CloudSim 1/examples/org.cloudbus.cloudsim.examples/CloudSimExample1.java - Eclipse IDE

CloudSim 1

JRE System Library [jdk-20]

examples

org.cloudbus.cloudsim.examples

CloudSimExample1.java

CloudSimExample2.java

CloudSimExample3.java

CloudSimExample4.java

CloudSimExample5.java

CloudSimExample6.java

CloudSimExample7.java

CloudSimExample8.java

org.cloudbus.cloudsim.examples

org.cloudbus.cloudsim.examples

org.cloudbus.cloudsim.examples

org.cloudbus.cloudsim.examples

org.cloudbus.cloudsim.examples

org.cloudbus.cloudsim.examples

workload.planetlab

sources

Referenced Libraries

docs

jars

build.xml

changelog.txt

examples.txt

license.txt

pom.xml

readme.txt

release\_notes.txt

CloudSimExample1.java

```

1 package org.cloudbus.cloudsim.examples;
2
3
40 Title: CloudSim Toolkit
41
11
120 port java.text.DecimalFormat;
```

Problems

Javadoc

Declaration

Console

```

<terminated> CloudSimExample1 [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (19 Aug 2024, 11:25:57 am - 11:25:58)
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:**

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