

**Ex.No – 05**

**Date :**

## **Installation and Configuration of CloudSim in Eclipse IDE**

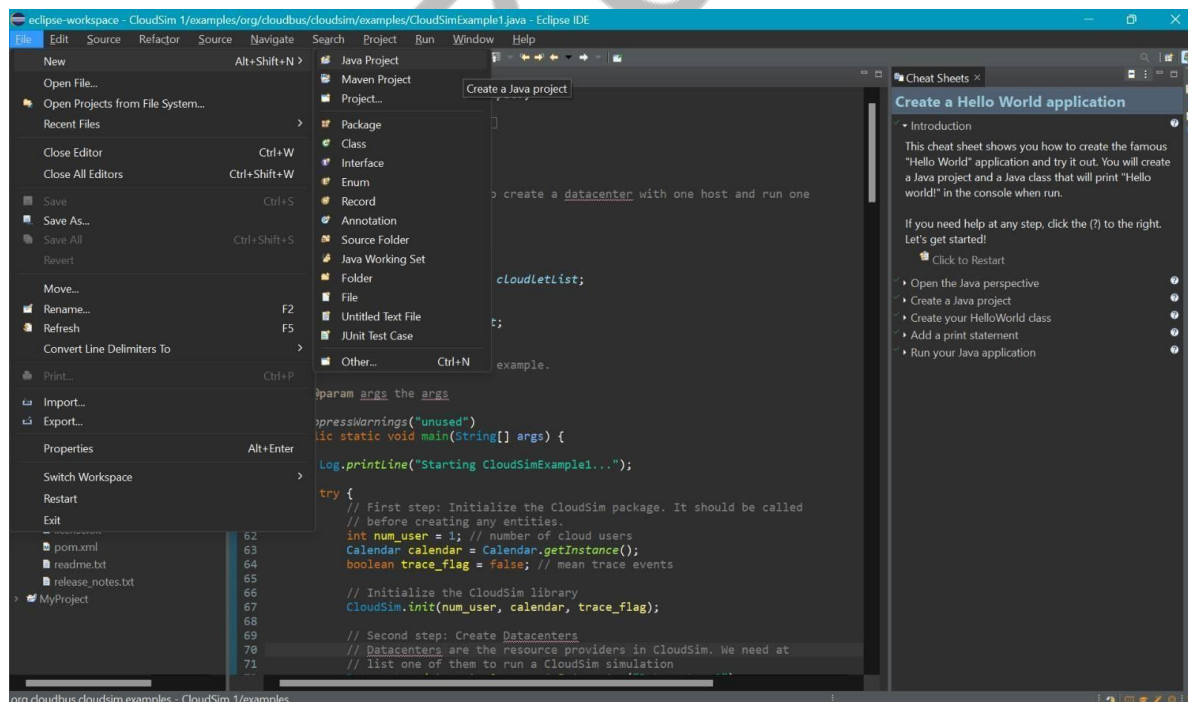
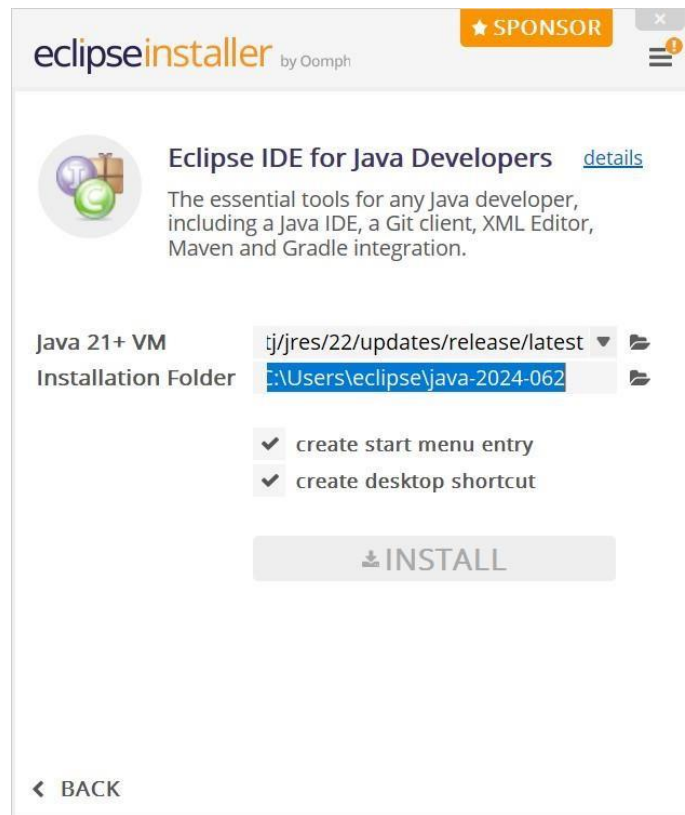
### **AIM:**

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 in the workspace or in an external location.

Project name: Cloud Sim

☒ Use default location

Location: C:\Users\mercy\workspace\Cloud Sim [Browse...](#)

**JRE**

☒ Use an execution environment JRE: CDC-1.0/Foundation-1.0 [Configure JREs...](#)

☐ Use a project specific JRE: jdk-20 [Configure JREs...](#)

☐ 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

[? < Back Next > Finish Cancel](#)

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

File Edit Source Refactor Source Navigate Search Project Run Window Help

Package Explorer

- 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
    - workload.planetlab
    - sources
    - Referenced Libraries
    - docs
    - libs
    - build.xml
    - changelog.txt
    - examples.txt
    - license.txt
    - pom.xml
    - readme.txt
    - release\_notes.txt
  - MyProject

CloudSimExample1.java

```

1 package org.cloudbus.cloudsim.examples;
2
3 /**
4  * Title: CloudSim Toolkit
5  */
6
7 public class CloudSimExample1 {
8
9     public static void main(String[] args) {
10
11         // ...
12     }
13 }

```

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 am)

```

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.