

Installation and Configuration of CloudSim in Eclipse IDE

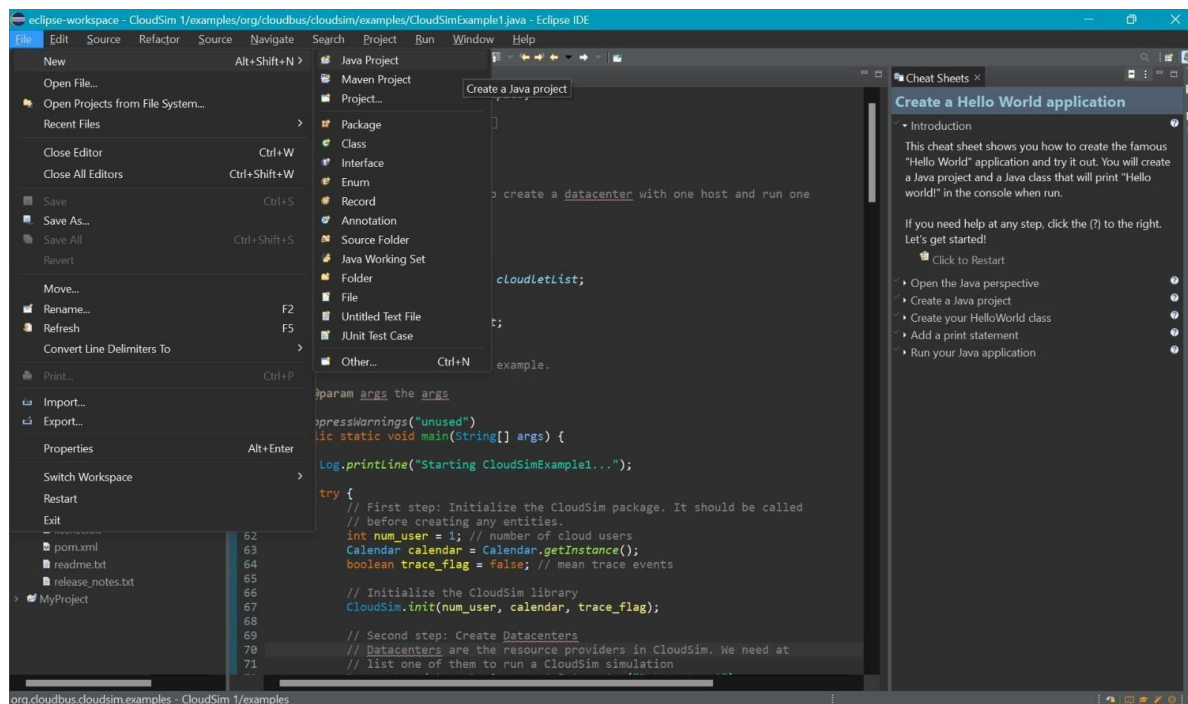
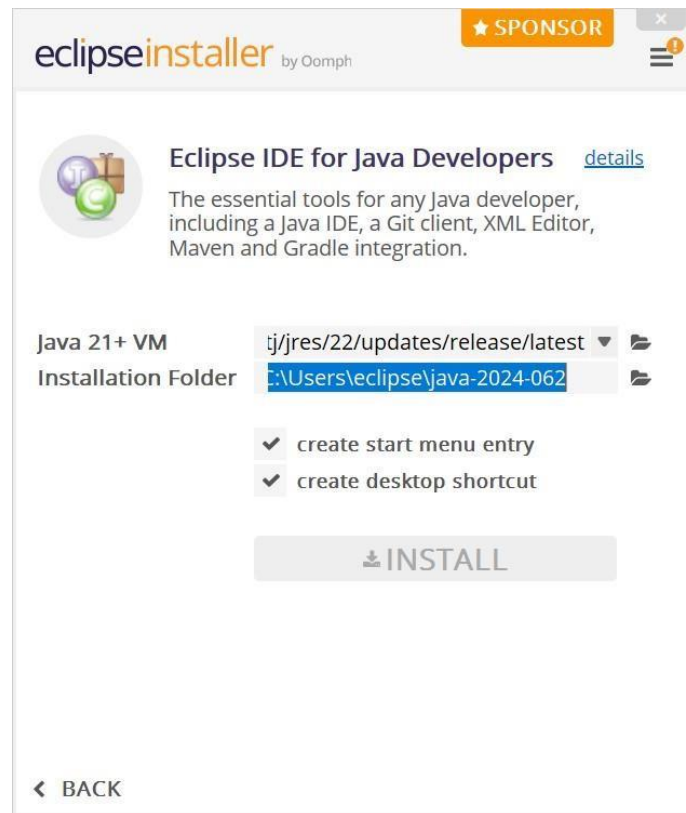
AIM:

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\mercy\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

workload.planetlab

sources

Referenced Libraries

docs

jars

build.xml

changelog.txt

examples.txt

license.txt

pom.xml

readme.txt

release_notes.txt

MyProject

CloudSimExample1.java

1

2

3

4

5

6

7

8

9

10

11

12

ckage org.cloudbus.cloudsim.examples;

Title: CloudSim Toolkit

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 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.