

Experiment 1.3

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Branch: BE-CSE

Semester: 6th

Subject Name: Cloud Computing and

Distributed Systems Lab

UID: 21BCS10155

Section/Group: 616-B

Date of Performance: 1-02-24

Subject Code: 21CSP-378

1. Aim:

Installation of Cloud Sim tool and IDE

2. Objective:

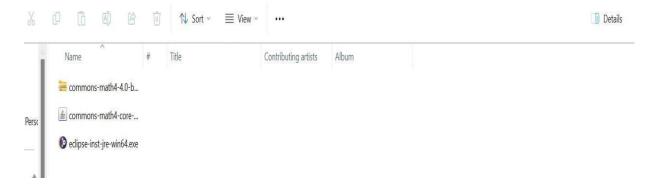
To install cloud sim tool, IDE and simulate core functionality of cloud

3. Procedure:

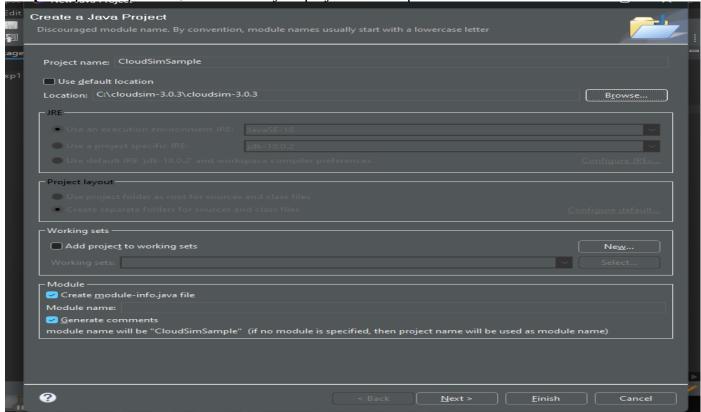
Step 1: Install Eclipse IDE for java developers:

Step 2: Download Cloud Sim source Code.

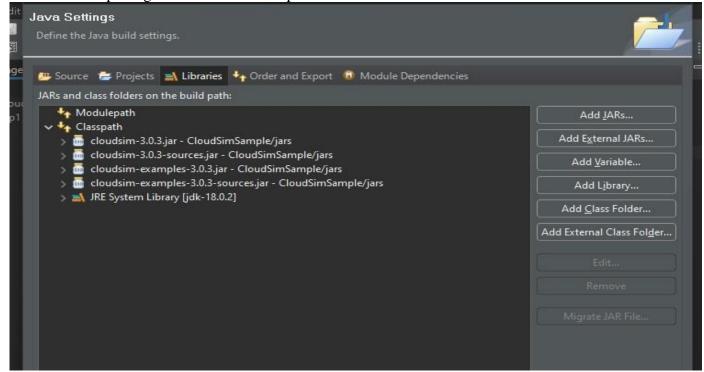
Step 3: Download the Common math package from apache website.



Step 4: Open Eclipse IDE, Create a new java project and add path of Cloud sim Source code.



Step 5: Click on Next, then go to libraries, Add external JARs and add the JAR file from the common math package downloaded from apache website and then click on finish.



Step 6: After configuring the new Project, Go to file and open a new java executable file, Writethe source code for the application and run the application.

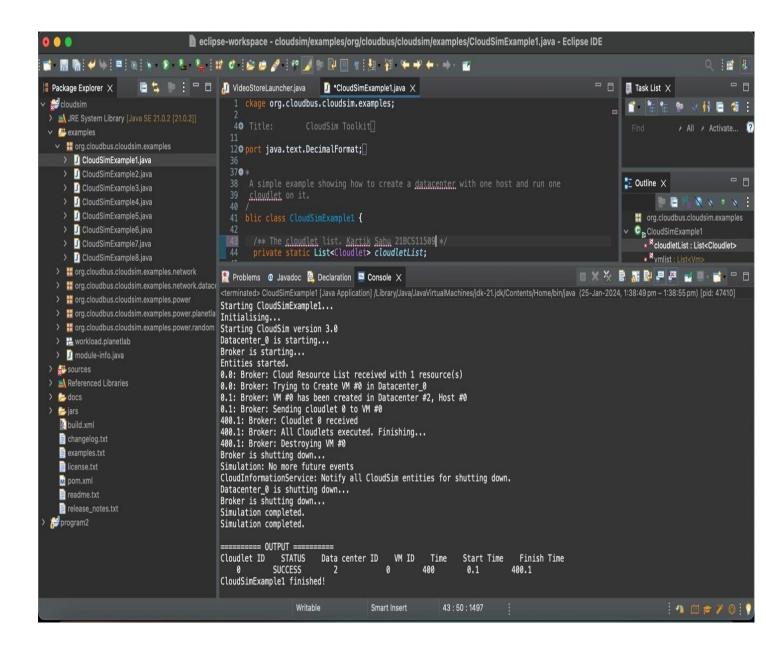
```
eclipse-workspace - CloudSimSample/examples/org/cloudbus/cloudsim/examples/CloudSimExample1.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
🗎 💲 📴 🗄 🖽 🗗 🗓 CloudSimExample1.java 🗴
# Package Explorer ×
package org.cloudbus.cloudsim.examples;
  > N JRE System Library [jdk-18.0.2]

→ 

☐ org.cloudbus.cloudsim.examples

                                                                       120 import java.text.DecimalFormat;
      > 🗾 CloudSimExample1.java
       > 🚺 CloudSimExample2.java
       > 🗾 CloudSimExample3.java
       > 🚺 CloudSimExample4.java
       >  CloudSimExample5.iava
       CloudSimExample6.java
       > J CloudSimExample7.java
       > 🚺 CloudSimExample8.java
      # org.cloudbus.cloudsim.examples.network
     > # org.cloudbus.cloudsim.examples.network.datacenter
     > # org.cloudbus.cloudsim.examples.power
     > # org.cloudbus.cloudsim.examples.power.planetlab
     > # org.cloudbus.cloudsim.examples.power.random
                                                                       490
     > - workload.planetlab
     > II module-info.iava
   > # sources
  > Keferenced Libraries
  > 🥦 docs
  > 🗁 jars
                                                                               public static void main(String[] args) {
    a build.xml
    changelog.txt
    examples.txt
    icense.txt
    M pom.xml
    readme.txt
    release_notes.txt
                                                                                     int num_user = 1; // number
Calendar calendar = Calendar.getInstance();
boolean trace_flag = false; // mean trace events
                                                                                   // Initialize the CloudSim library
CloudSim.init(num_user, calendar, trace_flag);
                                                                                        // list one of them to run a CloudSim simulation
Datacenter datacenter0 = createDatacenter("Datacenter_0");
                                                                                        int vmid = 0;
```

Output:



4. Learning Outcomes:

- Learned how to install and use Eclipse IDE
- Learned how to install Cloud sim IDE and how to use it with eclipse
- Learned how to simulate in Eclipse usin cloud sim IDE.