



# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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## Experiment 1.3

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**Semester:** 6<sup>th</sup>

**Subject Code:** 21CSP-378

**Subject Name:** Cloud Computing and Distributed Systems Lab

**Date - 30 January 2023**

**1. Aim:** Installation of Cloud Sim tool and IDE

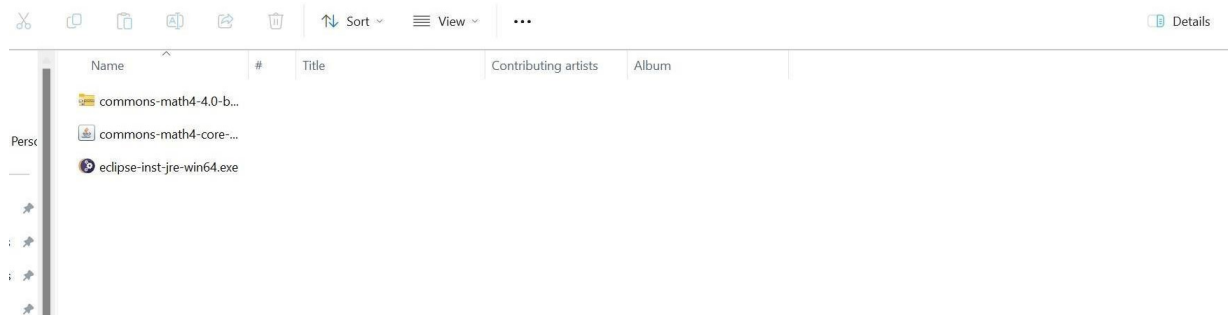
**2. Objective:** To install cloud sim tool , IDE and simulate core functionality of cloud

### **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.

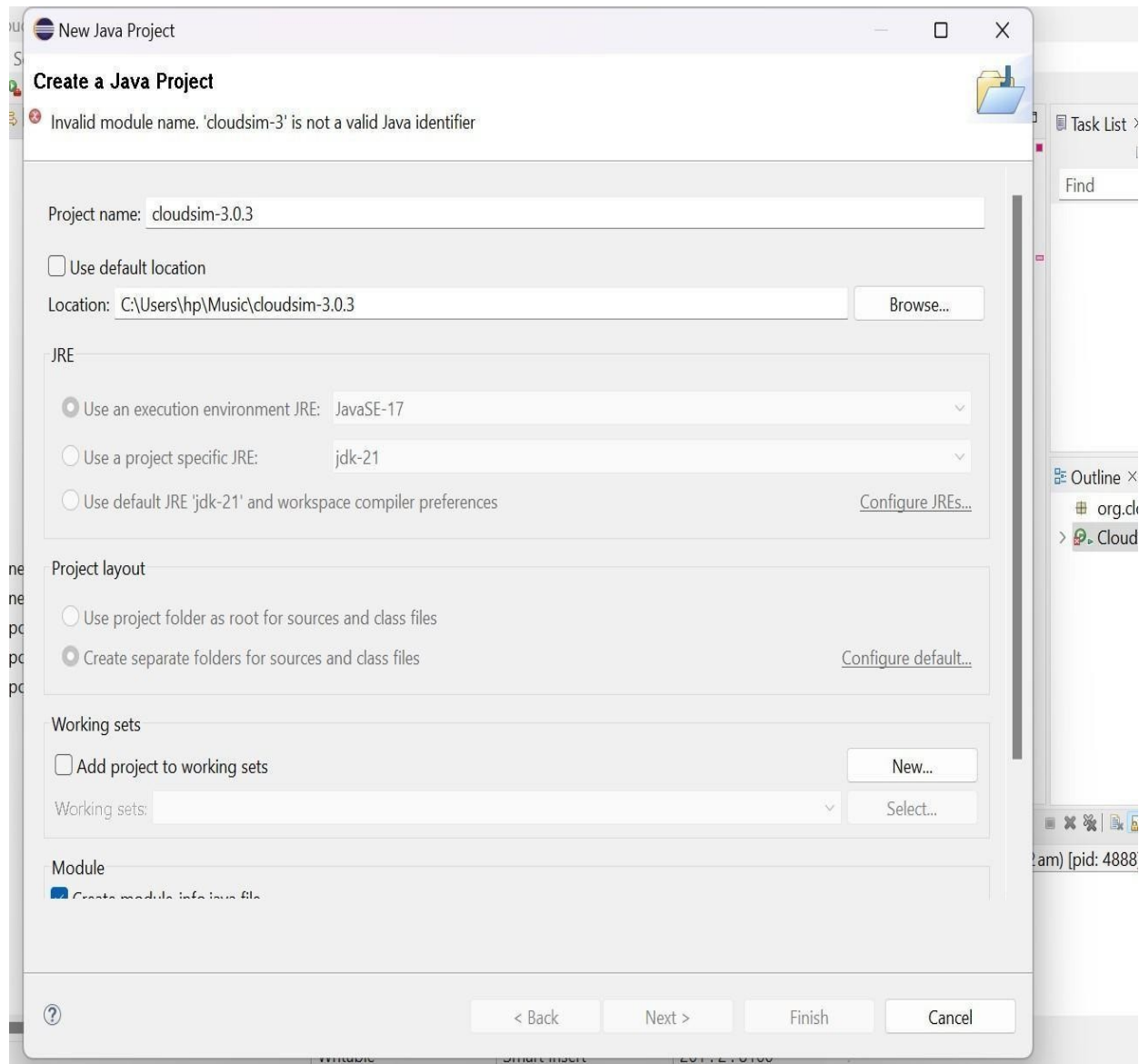


Step 4: Open Eclipse IDE, Create a new java project and add path of Cloud sim Source code.



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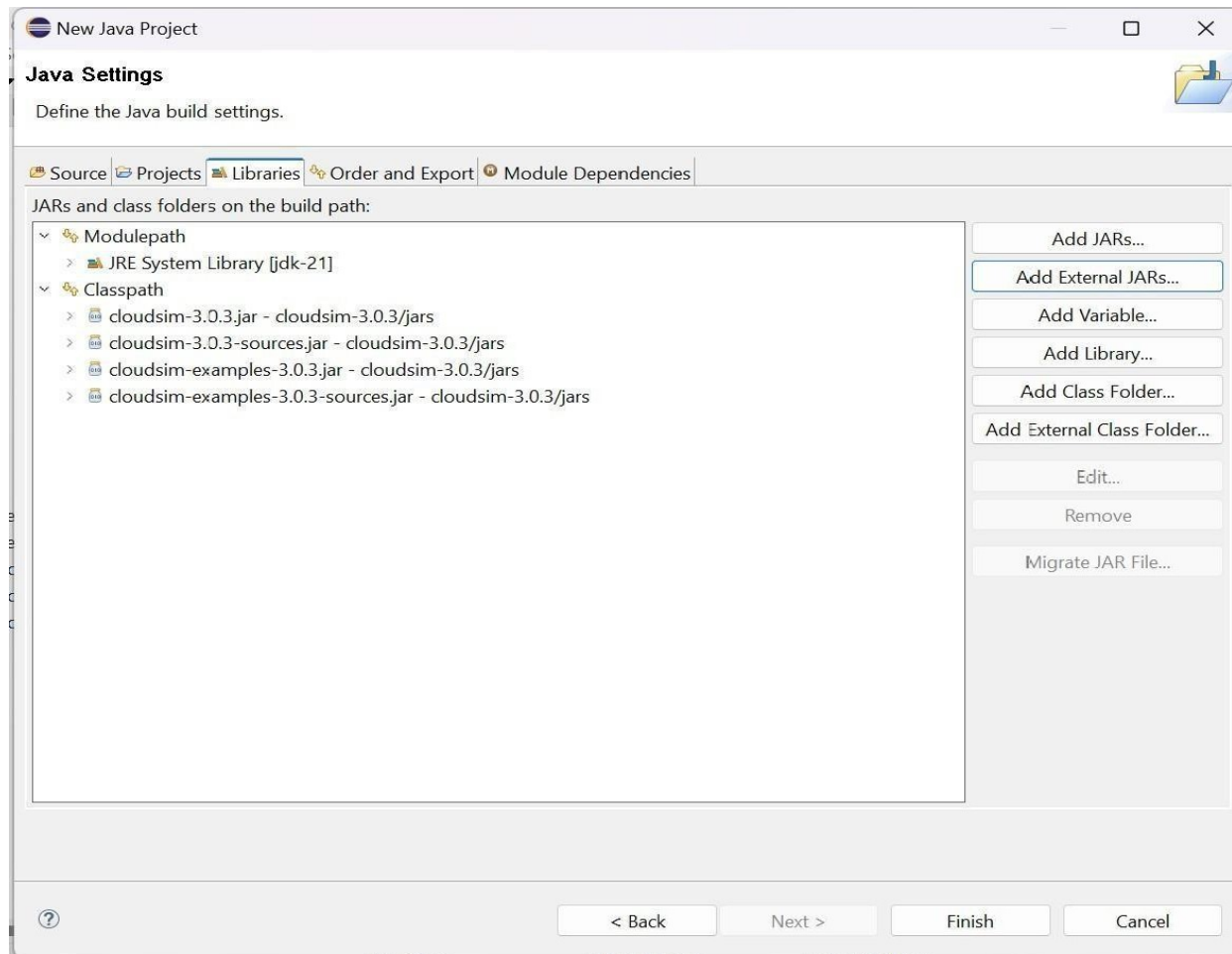


Step 5: Click on Next, then go to libraries , Add external JARs and add the JAR file from the common math package downloaded from apache website and then click on finish.



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



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Output:

```
2* * Title: CloudSim Toolkit
8
9 package org.cloudbus.cloudsim.power;
10
11 import java.util.LinkedList;
12
13 /**
14  * The Maximum Correlation (MC) VM selection policy.
15  *
16  * If you are using any algorithms, policies or workload included in the power package, please cite
17  * the following paper:
18  *
19  * Anton Beloglazov, and Rajkumar Buyya, "Optimal Online Deterministic Algorithms and Adaptive
20  * Heuristics for Energy and Performance Efficient Dynamic Consolidation of Virtual Machines in
21  * Cloud Data Centers", Concurrency and Computation: Practice and Experience (CCPE), Volume 24,
22  * Issue 13, Pages: 1397-1420, John Wiley & Sons, Ltd, New York, USA, 2012
23  *
24  * @author Anton Beloglazov
25  * @since CloudSim Toolkit 3.0
26  */
27
28 public class PowerVmSelectionPolicyMaximumCorrelation extends PowerVmSelectionPolicy {
29
30     /** The fallback policy. */
31     private PowerVmSelectionPolicy fallbackPolicy;
32
33     /**
34      * Instantiates a new power vm selection policy maximum correlation.
35      *
36      * @param fallbackPolicy the fallback policy
37      */
38     public PowerVmSelectionPolicyMaximumCorrelation(final PowerVmSelectionPolicy fallbackPolicy) {
39         super();
40     }
41 }
```



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## 4. Learning Outcomes:

i). Learned how to install and use Eclipse IDE ii). Learned how to install Cloud sim IDE and how to use it with eclipse. iii). Learned how to simulate in Eclipse using cloud sim IDE.