EX.NO:07 REG.NO:210701292

# DATE:

# CLOUD SIMULATION MODEL CLOUD ENVIRONMENT USING CLOUD SIM

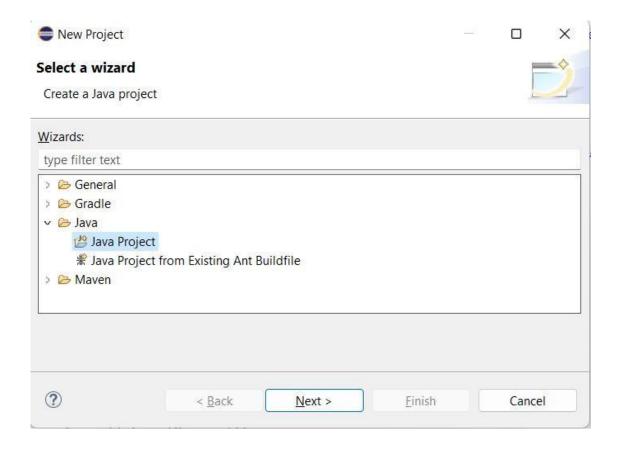
# AIM:

To model the cloud environment using cloud sim tools.

# **PROCEDURE:**

- 1. Now within the Eclipse window navigate the menu: File -> New -> Project, to open the new project wizard.
- 2. Select the 'Java Project' from the window popup and click Next.
- 3. Unselect the 'Use default location' option and then click on 'Browse' to open the path where you have unzipped the Cloudsim project and finally click Next to set project settings.
- 4. Now select the example program from folder examples from the unzipped folder.
- 5. Run the sample program

# **OUTPUT:**



```
; ith one host and run one
                                                                                             publi Skip All Breakpoints
Remove All Breakpoints
                                                                                                 Remove All Breakpoints

L J Add Java Exception Breakpoint...

† G Add Class Load Breakpoint...
CloudSimExample1.java ×
                                                                                                                                              1 package org.cloudbus.cloudsim.examples;
                                                                                                                             40 * Title: CloudSim Toolkit
     12* import java.text.DecimalFormat;
               aroker is shutting dod
Simulation completed.
* A simple example showing how to create a da
* cloudlet on it.
             * A simple example showing how to create a dar soluble to it.

*/

public class CloudSimExample1 {

**Cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time BUCCESS 2

**OUCCESS 2

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***Successer: Datacenter: Datacenter 0****

/** The cloudlet list. */

private static lists(Cloudlet) cloudlet1(st. 3)

**Out Time Start Time Finish Time Buccess 2

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                          /** The vmlist. */
private static List<Vm> vmlist;
                                                                                                                                                   CloudSimExample1 finished!
                          /**
 * Creates main() to run this example.
                                * @param args the args
                          public static void main(String[] args) {
                                       Log.printLine("Starting CloudSimExample1...");
                                     try {
    // First step: Initialize the CloudSim package. It should be called
    // before creating any entities.
    int num_user = 1; // number of cloud users
    Calendar calendar = Calendar.getInstance();
    boolean trace_flag = false; // mean trace events
                                                  // Initialize the CloudSim library
CloudSim.init(num_user, calendar, trace_flag);
                                                   // Second step: Create <u>Datacenters</u>
// <u>Datacenters</u> are the resource providers in CloudSim. We need at
// list one of them to run a CloudSim simulation
Datacenter datacenter0 = createDatacenter("Datacenter_0");
                                                   // Third step: Create Broker
```

# **RESULT:**

Thus, the cloud environment was modeled using the cloud sim tool and eclipse.