EX.NO:07 REG.NO:210701321

DATE:

CLOUD SIMULATION MODEL CLOUD ENVIRONMENT USING CLOUD SIM

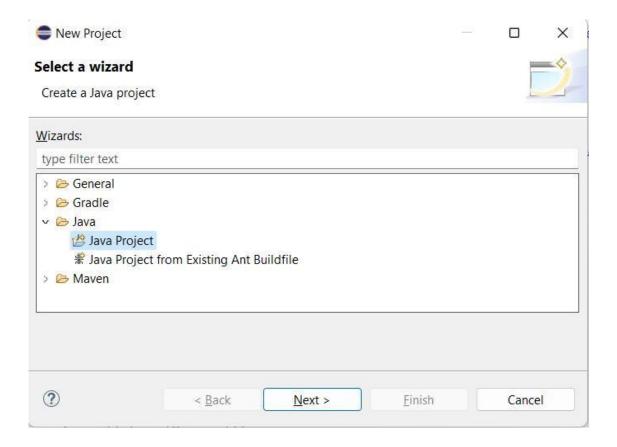
AIM:

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

L J Add Java Exception Breakpoint

d Add Class Load Breakpoint.
                                                                                                                                                                                                                                              ge. It should be called
                                                                                                                                                                                                             Ctrl+U
An+Shift+F
CloudSim. We need at tion atacenter_0");
                                                                                                                                                    Problems @ Javadoc Declaration Console ×
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<terminated > CloudSimExample1 [Java Application] C\Users\SRI\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32x86_64_15.02.v20210201-0955\jre\binjie
Simulation: No more future events
CloudInformationService: Notify all CloudSim entities for shutting down.
Datacenter 0 is shutting down...
Broker is shutting down...
Simulation complete:
 package org.cloudbus.cloudsim.examples;
    4* * Title: CloudSim Toolkit
12* import java.text.DecimalFormat;
         or over 1s shutting dom

simulation completed.

* A simple example showing how to create a data

* cloudlet on it.
                      A simple example showing how to create a dar cloudlet on it.

Cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 0 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 0 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 0 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 0 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 0 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 0 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 0 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 0 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 0 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 0 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 0 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 0 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 0 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 1 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 1 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 1 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 1 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 1 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 1 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 1 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 1 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 1 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 1 to 2000 the cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time ID VM ID Time Start Time Finis
41 public class CloudSimExample1 {
                      /** 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.