EX.NO:07 REG.NO:210701294

DATE:

CLOUD SIMULATION MODEL CLOUD ENVIRONMENT USING CLOUD SIM

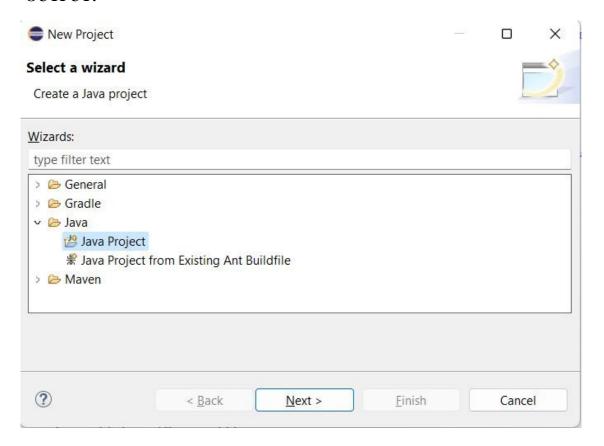
AIM:

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:



```
File Eith Source Refedor Marique Search Project Bin Window Melo

Refedor Commander Search Sea
```

```
48
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                                                                                                                                                                     Remove All Breakpoints

J Add Java Exception Breakp

Add Class Load Breakpoint
                                                                                                                                                                                                                                                                                                                                              ge. It should be called
                                                                                                                                                                                                                                                                                                          ChH-Shift=0
ChH-Shift=0
ChH-Shift=F
CloudSim. We need at tion atacenter_0");
                                                                                                                                                                          9 External Tools
                                                                                                                                                                         // Third step: Create Broker
                                                                                                                                                                                                                                                     Problems @ Javadoc & Declaration © Console X
cterminated> CloudSimExample1 [Java Application] C\Users\SRN\p2\poo\plugins\orgacelipse.justj.openjdk.hotspot.jre.full.win32x86_64_15.02x20210201-0955\yie\bin\je
Simulation: No more future events
CloudInformationservice: Notify all CloudSim entities for shutting down.
Datacenter_0 is shutting down...
Simulation completed.
Simulation completed.

☑ CloudSimExample1.java ×

                              l package org.cloudbus.cloudsim.examples;

2

4* * Title: CloudSim Toolkit
                    11
12*import java.text.DecimalFormat;
                                                          A simple example showing how to create a dar cloudlet on it.

Cloudlet ID STATUS Data center ID 0 MM ID Time Start Time Finish Time 0 SUCCESS 2 0 400 0.1 400.1

/** The cloudlet list. */
private static List<Cloudlet> cloudletList 3 35.6

/** The vmlist. */
private static List<Clow wnlist;

CloudSimExample1 finished!
                                                                            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");
```

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