Exp No: 7 Date:

CLOUD SIMULATION MODEL CLOUD ENVIRONMENT USING CLOUD SIM

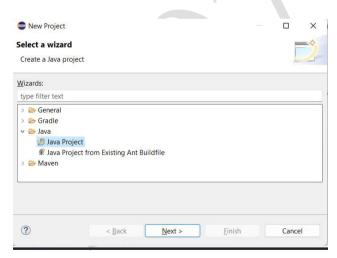
AIM:

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:



```
E Problems @ Javadoc ® Declaration © Console ×

- terminated CloudSimExamplet [Java Application] C\Users\SRN.p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_54_15.02.v20210201-0955\jre\bin\jre.simulation: No more future events

CloudSim entities for shutting down.

Datacenter_0 is shutting down...

Broker is shutting down...

Simulation completed.

Simulation completed.
① CloudSimExample1.java ×

1 package org.cloudbus.cloudsim.examples;
   2
49 * Title: CloudSim Toolkit[]
11
  12* import java.text.DecimalFormat;
         * A simple example showing how to create a da
* cloudlet on it.
                                                                                               Cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time 0 Start Time Finish Time 0 400 0.1 400.1

******Patacenter: Datacenter_0*****
User id Debt 3 35.6
                /** The cloudlet list. */
private static List<Cloudlet> cloudletList 3 35.6
                /** The vmlist. */
private static List<Vm> vmlist;
                                                                                                CloudSimExample1 finished!
                /**
 * Creates main() to run this example.
                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 \underline{Datacenters} // \underline{Datacenters} are the resource providers in CloudSim. We need at // list one of them to run a CloudSim simulation \underline{Datacenter} datacenter0 = \underline{createDatacenter}("Datacenter 0");
                                // Third step: Create Broker
```

RESULT:

Thus, the cloud environment using cloud sim tools has been modelled.