Exp No: 7 Date:

# CLOUD SIMULATION MODEL CLOUD ENVIRONMENT USING CLOUD SIM

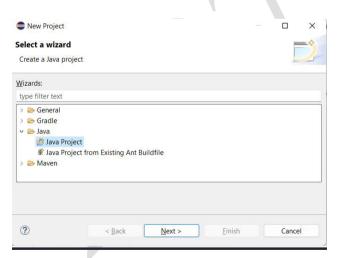
### AIM:

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:**



```
Problems @ Javadoc ® Declaration © Console ×
-terminated> CloudSimExamplet [Java Application] C\Users\SRN.p2\poo\plugins\org.eclipsejustj.openjdk.hotspotjre.full.win32x86_64_15.02v20210201-0955\jre\bin\jre\line{\text{im}}\integral = \text{ is mulation: No more future events CloudInformationService: Notify all 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.