**ROLL NUMBER: 210701102** 

Exp No: 7 Date:

# CLOUD SIMULATION MODEL CLOUD ENVIRONMENT USING CLOUD SIM

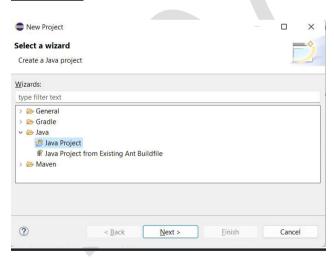
## AIM:

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:**



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-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}}\integration \frac{1}{2} \text{ of more future events} \frac{1}{2} \text{ cloudInformationService: Notify all CloudSim entities for shutting down.} \frac{1}{2} \text{ abateenter } \text{ is shutting down...} \frac{1}{2} \text{ shutting down...} \frac{1}{2} \text{ simulation completed.} \frac{1}{2} \text{ simulation completed.} \frac{1}{2} \text{ of more future events} \frac{1}{2} \te
① CloudSimExample1.java ×

1 package org.cloudbus.cloudsim.examples;
2
           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 Fini 0 400 0.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 400.1 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Finish Time
                                                   /** The <u>cloudlet</u> 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.