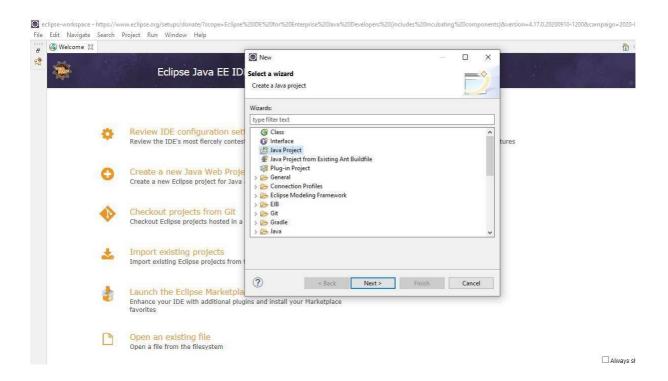
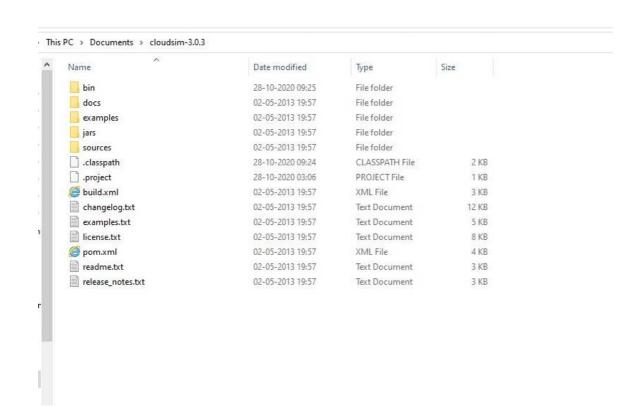
EX.NO:6 DATE:27-10-2020

CLOUD SIM INSTALLATION

CLOUD SIM AND ECLIPSE INSTALLATION:





SAMPLE CLOUD SCENARIO:

```
eciipse-workspace - ciouasimsampie/exampies/org/ciouabus/ciouasim/exampies/CiouasimExampie1.java - Eciipse ibE
Edit Source Refactor Navigate Search Project Run Window Help
 ☑ CloudSimExample1.java ⋈
    39 * cloudlet on it.
40 */
     41 public class CloudSimExample1 {
              /** The cloudlet list. */
private static List<Cloudlet> cloudletList;
     43
     44
              /** The ymlist. */
private static List<Vm> vmlist;
     46
     47
     490
                * Creates main() to run this example.
     50
     51
     52
                * @param args the args
     53
     540
              @SuppressWarnings("unused")
     55
              public static void main(String[] args) {
     56
     57
                   Log.printLine("Starting CloudSimExample1...");
     59
                         // First step: Initialize the CloudSim package. It should be called
     60
                        // First step: Initialize the Cloudsim package. . // before creating any entities, int num_user = 1; // number of cloud users Calendar calendar = Calendar.getInstance(); boolean trace_flag = false; // mean trace events
     61
     62
     63
     65
                        // Initialize the CloudSim library
CloudSim.init(num_user, calendar, trace_flag);
     66
     67
     68
                        // Second step: Create Datacenters
// Datacenters are the resource providers in CloudSim. We need at
// list one of them to run a CloudSim simulation
     69
     70
     72
                        Datacenter datacenter@ = createDatacenter("Datacenter_0");
```

OUTPUT:

```
Initialising...
Starting CloudSim version 3.0
Datacenter_0 is starting...
Broker is starting...
Entities started.
0.0: Broker: Cloud Resource List received with 1 resource(s)
0.0: Broker: Trying to Create VM #0 in Datacenter_0
0.1: Broker: VM #0 has been created in Datacenter #2, Host #0
0.1: Broker: Sending cloudlet 0 to VM #0
400.1: Broker: Cloudlet 0 received
400.1: Broker: All Cloudlets executed. Finishing...
400.1: Broker: Destroying VM #0
Broker is shutting down...
Simulation: 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.
====== OUTPUT ======
Cloudlet ID STATUS
                       Data center ID
                                         VM ID Time
                                                           Start Time
                                                                        Finish Time
             SUCCESS
                                       0
                                                                       400.1
CloudSimExample1 finished!
```

SCHEDULING ALGORITHM:(SJF)

eclipse-workspace - cloudsimsample/examples/examples/org/cloudbus/cloudsim/examples/Simulation.java - Eclipse IDE Edit Source Refactor Navigate Search Project Run Window Help Donate
CloudSimExample1.java
data.java
Simulation.java
S 2820 283 /**

* Prints the Cloudlet objects

* @param list list of Cloudlets

*/ 284 285 2860 @SuppressWarnings("deprecation")
private static void printCloudletList(List<Cloudlet> list) {
 int size = list.size();
 Cloudlet cloudlet; 287 288 289 290 String indent = " 291 292 293 294 295 296 297 298 299 300 301 Log.printline();
Log.printline("==========");
Log.printline("Cloudlet ID" + indent + "STATUS" + indent +

"Data center ID" + indent + "WM ID" + indent + indent + "Time" + indent + "Start Time" + indent + "Finish Time" + indent+"user id". DecimalFormat dft = new DecimalFormat("###.##");
for (int i = 0; i < size; i++) {
 cloudlet = list.get(i);
 Log.print(indent + cloudlet.getCloudletId() + indent + indent);</pre> if (cloudlet.getCloudletStatus() == Cloudlet.SUCCESS){
 Log.print("SUCCESS"); 302 303 304 305 306 307 308 Log.printLine(indent + indent + cloudlet.getResourceId() + indent + indent + indent + cloudlet.getVmId() +
 indent + indent + indent + dft.format(cloudlet.getActualCPUTime()) +
 indent + indent + dft.format(cloudlet.getExecStartTime())+ indent + indent + dft.format(cloudlet.getFinishTime()) 309 310 } 311 312 313 314 } }

```
Starting CloudSimExample6...
Initialising...
Starting CloudSim version 3.0
Datacenter_0 is starting...
Datacenter_1 is starting...
Broker is starting...
Entities started.
0.0: Broker: Cloud Resource List received with 2 resource(s)
0.0: Broker: Trying to Create VM #0 in Datacenter_0
0.0: Broker: Trying to Create VM #1 in Datacenter_0
0.0: Broker: Trying to Create VM #2 in Datacenter_0
0.0: Broker: Trying to Create VM #3 in Datacenter_0
0.0: Broker: Trying to Create VM #4 in Datacenter_0
0.0: Broker: Trying to Create VM #5 in Datacenter_0
0.0: Broker: Trying to Create VM #6 in Datacenter 0
0.0: Broker: Trying to Create VM #7 in Datacenter_0
0.0: Broker: Trying to Create VM #8 in Datacenter_0
0.0: Broker: Trying to Create VM #9 in Datacenter_0
[VmScheduler.vmCreate] Allocation of VM #6 to Host #0 failed by RAM
[VmScheduler.vmCreate] Allocation of VM #6 to Host #1 failed by MIPS
[VmScheduler.vmCreate] Allocation of VM #7 to Host #0 failed by RAM
[VmScheduler.vmCreate] Allocation of VM #7 to Host #1 failed by MIPS
[VmScheduler.vmCreate] Allocation of VM #8 to Host #0 failed by RAM
[VmScheduler.vmCreate] Allocation of VM #8 to Host #1 failed by MIPS
[VmScheduler.vmCreate] Allocation of VM #9 to Host #0 failed by RAM
[VmScheduler.vmCreate] Allocation of VM #9 to Host #1 failed by MIPS
0.1: Broker: VM #0 has been created in Datacenter #2, Host #0
0.1: Broker: VM #1 has been created in Datacenter #2, Host #0
0.1: Broker: VM #2 has been created in Datacenter #2, Host #0
0.1: Broker: VM #3 has been created in Datacenter #2, Host #1
0.1: Broker: VM #4 has been created in Datacenter #2, Host #0
0.1: Broker: VM #5 has been created in Datacenter #2, Host #1
0.1: Broker: Creation of VM #6 failed in Datacenter #2
```

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```
0.2: Broker: Sending cloudlet 2 to VM #2
0.2: Broker: Sending cloudlet 3 to VM #3
0.2: Broker: Sending cloudlet 4 to VM #4
0.2: Broker: Sending cloudlet 5 to VM #5
0.2: Broker: Sending cloudlet 6 to VM #6
0.2: Broker: Sending cloudlet 7 to VM #7
0.2: Broker: Sending cloudlet 8 to VM #8
0.2: Broker: Sending cloudlet 9 to VM #9
0.2: Broker: Sending cloudlet 10 to VM #0
0.2: Broker: Sending cloudlet 11 to VM #1
0.2: Broker: Sending cloudlet 12 to VM #2
0.2: Broker: Sending cloudlet 13 to VM #3
0.2: Broker: Sending cloudlet 14 to VM #4
0.2: Broker: Sending cloudlet 15 to VM #5
0.2: Broker: Sending cloudlet 16 to VM #6
0.2: Broker: Sending cloudlet 17 to VM #7
0.2: Broker: Sending cloudlet 18 to VM #8
0.2: Broker: Sending cloudlet 19 to VM #9
0.2: Broker: Sending cloudlet 20 to VM #0
0.2: Broker: Sending cloudlet 21 to VM #1
0.2: Broker: Sending cloudlet 22 to VM #2
0.2: Broker: Sending cloudlet 23 to VM #3
0.2: Broker: Sending cloudlet 24 to VM #4
0.2: Broker: Sending cloudlet 25 to VM #5
0.2: Broker: Sending cloudlet 26 to VM #6
0.2: Broker: Sending cloudlet 27 to VM #7
0.2: Broker: Sending cloudlet 28 to VM #8
0.2: Broker: Sending cloudlet 29 to VM #9
0.2: Broker: Sending cloudlet 30 to VM #0
0.2: Broker: Sending cloudlet 31 to VM #1
0.2: Broker: Sending cloudlet 32 to VM #2
0.2: Broker: Sending cloudlet 33 to VM #3
0.2: Broker: Sending cloudlet 34 to VM #4
```

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```
1.377: Broker: Cloudlet 5 received
1.634999999999998: Broker: Cloudlet 6 received
1.781: Broker: Cloudlet 2 received
2.299: Broker: Cloudlet 1 received
2.471: Broker: Cloudlet 13 received
2.532: Broker: Cloudlet 8 received
2.826: Broker: Cloudlet 9 received
2.831: Broker: Cloudlet 4 received
2.941: Broker: Cloudlet 12 received
3.050999999999997: Broker: Cloudlet 0 received
3.050999999999997: Broker: Cloudlet 15 received
3.459: Broker: Cloudlet 17 received
4.514: Broker: Cloudlet 16 received
4.55: Broker: Cloudlet 23 received
4.752: Broker: Cloudlet 10 received
5.352: Broker: Cloudlet 19 received
5.4830000000000005: Broker: Cloudlet 18 received
5.880999999999985: Broker: Cloudlet 25 received
5.97600000000001: Broker: Cloudlet 27 received
6.35399999999998: Broker: Cloudlet 24 received
7.04299999999998: Broker: Cloudlet 35 received
7.105: Broker: Cloudlet 28 received
7.367999999999986: Broker: Cloudlet 33 received
7.47799999999998: Broker: Cloudlet 20 received
7.47799999999998: Broker: Cloudlet 21 received
7.481000000000001: Broker: Cloudlet 26 received
7.96499999999998: Broker: Cloudlet 32 received
7.973000000000001: Broker: Cloudlet 29 received
8.07499999999998: Broker: Cloudlet 34 received
```

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3 SUCCESS 2 3 1.07 0.2 1.27 4 7 SUCCESS 3 7 1.15 0.2 1.35 4 6 SUCCESS 2 5 1.18 0.2 1.38 4 6 SUCCESS 3 6 1.43 0.2 1.63 4 2 SUCCESS 2 2 1.58 0.2 1.78 4 1 SUCCESS 2 1 1.2.1 0.2 2.3 4 13 SUCCESS 2 1 1.2.1 0.2 2.3 4 13 SUCCESS 3 8 2.33 0.2 2.53 4 8 SUCCESS 3 9 2.63 0.2 2.83 4 9 SUCCESS 3 9 2.63 0.2 2.83 4 4 SUCCESS 2 4 2.63 0.2 2.83 4 4 SUCCESS 2 4 2.63 0.2 2.83 4 12 SUCCESS 2 0 2.16 1.78 2.94 4 0 SUCCESS 2 0 2.85 0.2 3.05 4 15 SUCCESS 2 0 2.85 0.2 3.05 4 15 SUCCESS 2 0 2.85 0.2 3.05 4 16 SUCCESS 3 7 2.11 1.35 3.46 4 16 SUCCESS 3 6 2.88 1.63 4.51 4 16 SUCCESS 3 6 2.88 1.63 4.51 4 17 SUCCESS 2 0 1.7 3.05 4.75 4 18 SUCCESS 2 1 2.7 3.05 4.75 4 19 SUCCESS 2 1 2.78 2.3 5.08 4 11 SUCCESS 2 1 2.78 2.3 5.08 4 11 SUCCESS 2 2 2 2.53 2.83 5.35 4 12 SUCCESS 2 3 2.83 5.35 4 13 SUCCESS 2 4 2.03 2.83 4.86 4 11 SUCCESS 2 4 2.03 2.83 5.35 4 11 SUCCESS 2 5 5.25 3.68 4 11 SUCCESS 3 9 2.53 2.83 5.35 4 22 SUCCESS 2 2 2.54 2.94 5.48 4 18 SUCCESS 3 8 2.95 2.53 5.48 4 25 SUCCESS 3 7 2.52 3.46 5.98 4 26 SUCCESS 3 7 2.52 3.46 5.98 4 27 SUCCESS 3 7 2.52 3.46 5.98 4 28 SUCCESS 3 7 2.52 3.46 5.98 4 29 SUCCESS 3 7 2.52 3.46 5.98 4 20 SUCCESS 3 7 2.52 3.46 5.98 4 21 SUCCESS 3 7 2.52 3.46 5.98 4 24 SUCCESS 2 4 1.49 4.86 6.35 4	======= OUTPUT =======								
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