**Cloud Computing Exercise: Post-Lab Activity**

Name

Institution

Date

The output of the result of running the simulation can be broken down as below:

**Simulation Initialization:**

**Starting CloudSimExample2**...: Indicates the start of the simulation.

**Initialising...:** Shows that the simulation is initializing.

**Starting CloudSim version 3.0:** Indicates the version of CloudSim being used.

**Datacenter\_0 is starting...:** Signifies the start of the first datacenter.

**Broker is starting...:** Indicates the initiation of the broker.

**Entities started.:** Indicates that the simulation entities (datacenters, brokers) have been started.

**Simulation Execution:**

**0.0: Broker**: Cloud Resource List received with 1 resource(s): Shows the broker receiving information about available cloud resources.

**0.0: Broker**: Trying to Create VM #0 in Datacenter\_0: Indicates an attempt to create Virtual Machine (VM) #0 in Datacenter #2.

**0.1: Broker:** VM #0 has been created in Datacenter #2, Host #0: Indicates successful creation of VM #0.

**0.1: Broker:** Sending cloudlet 0 to VM #0: Cloudlet 0 is sent for execution on VM #0.

**1000.1: Broker:** Cloudlet 0 received: Indicates that Cloudlet 0 has been executed and completed at time 1000.1.

**1000.1: Broker:** All Cloudlets executed. Finishing...: Signifies that all cloudlets have been executed.

**1000.1: Broker:** Destroying VM #0: VM #0 is terminated.

**Broker is shutting down...:** Indicates the shutdown process of the broker.

**Simulation Results:**

**Cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time:** This table provides detailed information about the cloudlets that were executed during the simulation. Each row corresponds to a cloudlet, displaying its ID, status (in this case, SUCCESS), the data center and VM it ran on, the time it took to execute, its start time, and finish time.

**Simulation Termination:**

**Simulation**: No more future events: Indicates that there are no more scheduled events in the simulation.

**CloudInformationService:** Notify all CloudSim entities for shutting down.: Notifies all entities in the simulation that the simulation is ending.

**Datacenter\_0 is shutting down...:** Indicates the shutdown process of Datacenter #2.

**Broker is shutting down...:** Final step in the simulation, indicating the broker shutting down.

**Simulation completed.:** Indicates that the simulation has been successfully completed.

The output confirms that the simulation executed successfully, with two cloudlets (cloudlet 0 and cloudlet 1) completing their execution in Datacenter #2 on VMs #0 and #1, respectively.