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ROLL :- A23

COURSE CODE :- CSE427

COURSE NAME :- CLOUD COMPUTING LABORATORY

CA 4 >> PRACTICALS (DATE : – April 26, 2023)

Q1:- RUN DIFFERENT TYPES OF CLOUD SIM EXAMPLES

TERMINOLOGIES INVOLVED IN CLOUD SIM:-

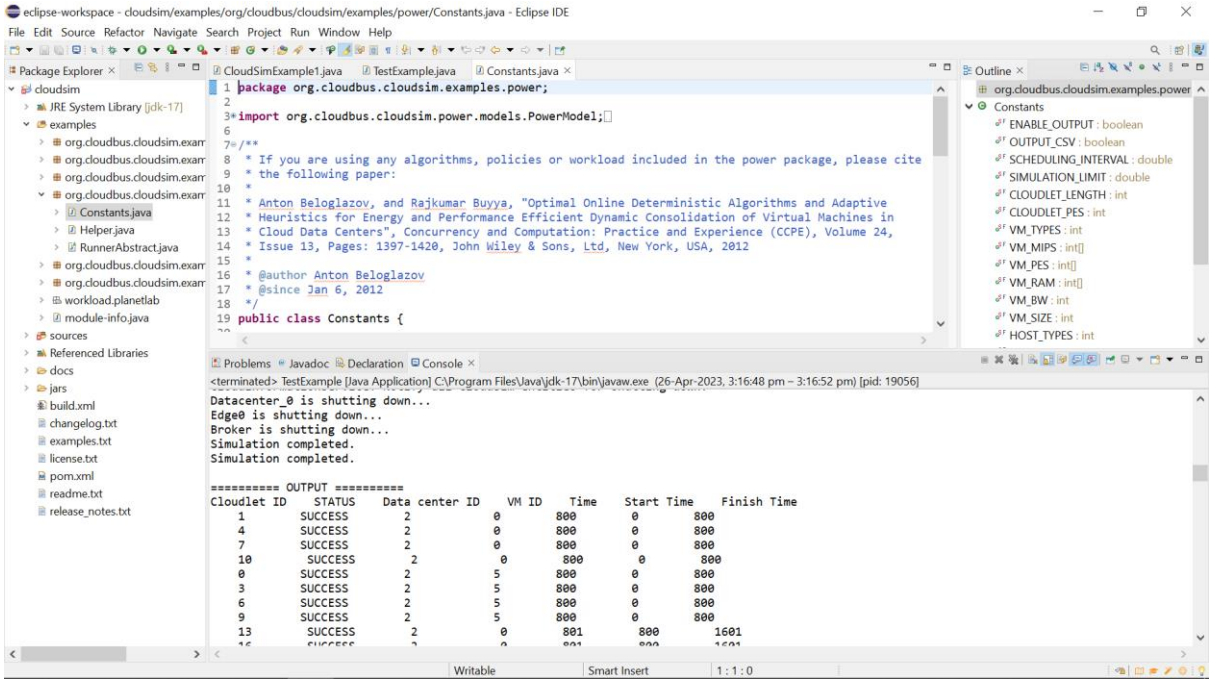
Cloudlet: A cloudlet is a small unit of work that can be executed on a cloud resource, such as a virtual machine (VM). Cloudlets can represent tasks that are submitted by cloud users to be executed on the cloud infrastructure.

Datacentre: A datacentre is a collection of physical and virtual resources that are managed as a single entity. Datacentres provide computing, storage, and networking resources that can be used to host cloud services.

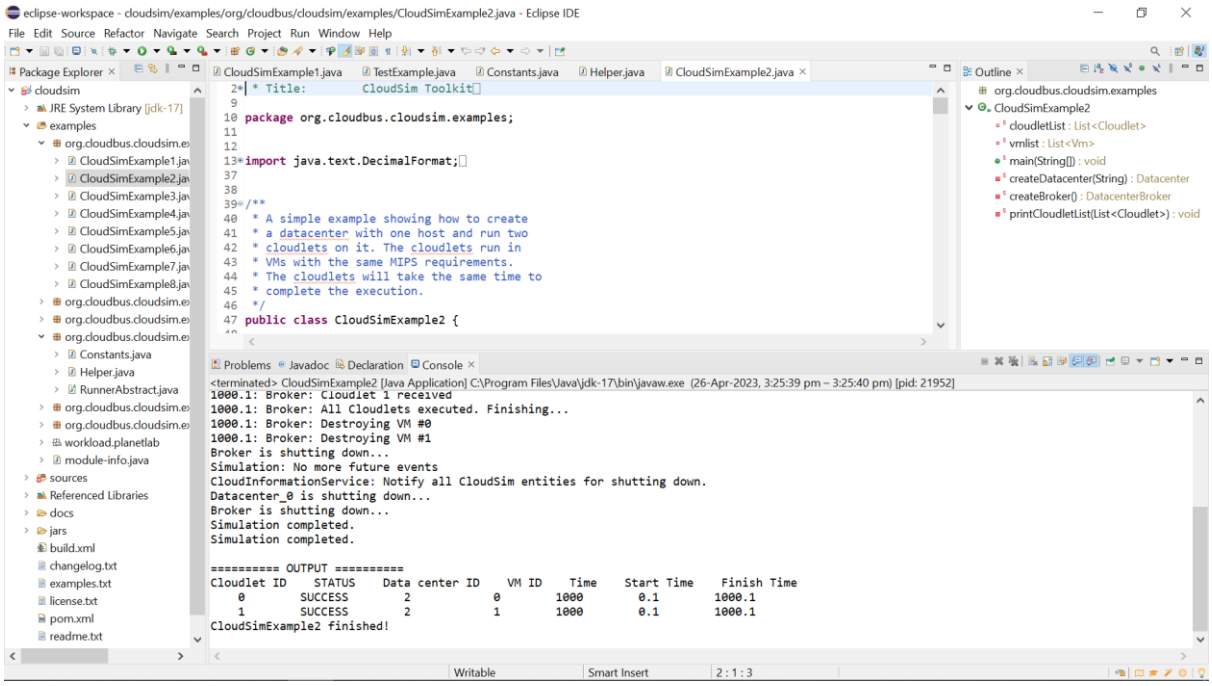
Virtual Machine (VM): A virtual machine is a software implementation of a physical machine. VMs are used to provide users with a virtualized environment in which they can run their applications.

SCREENSHOTS:-

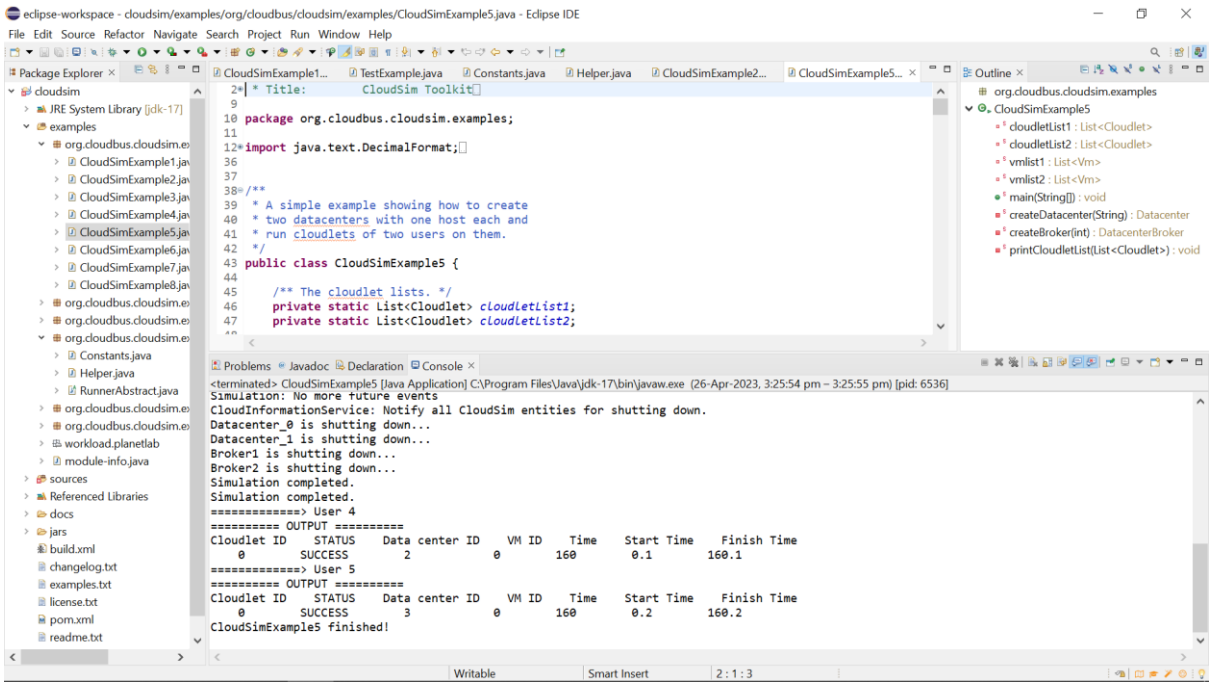
EXAMPLE1:-



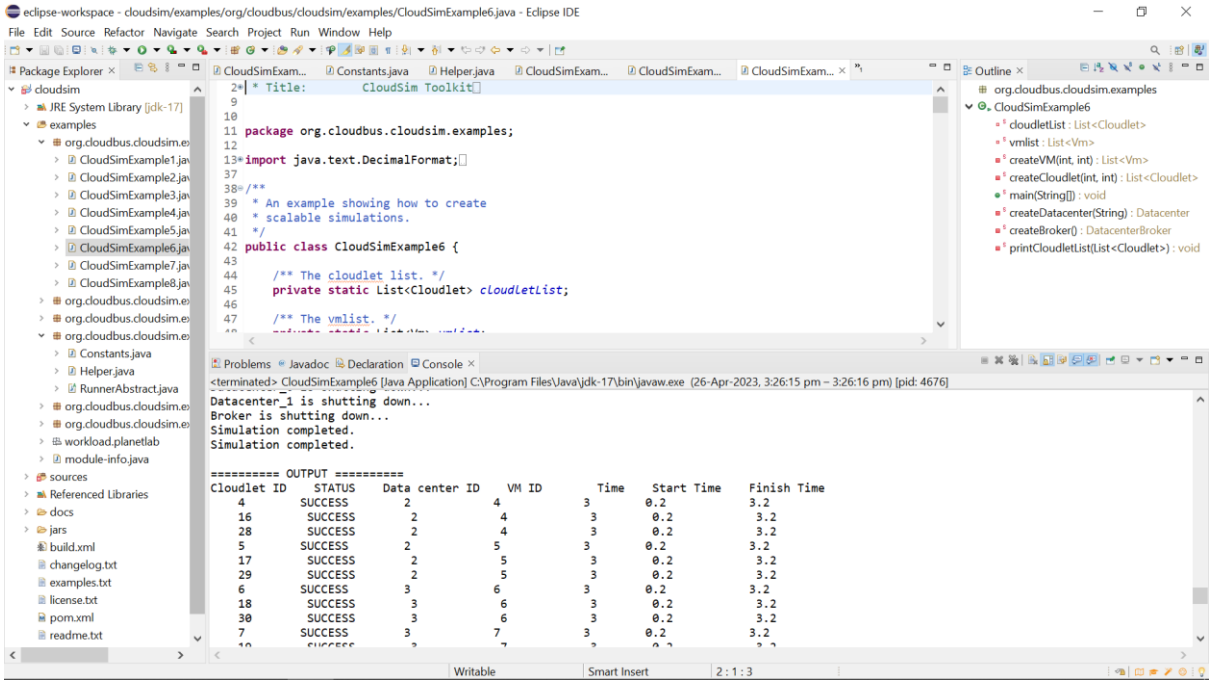
EXAMPLE2:-



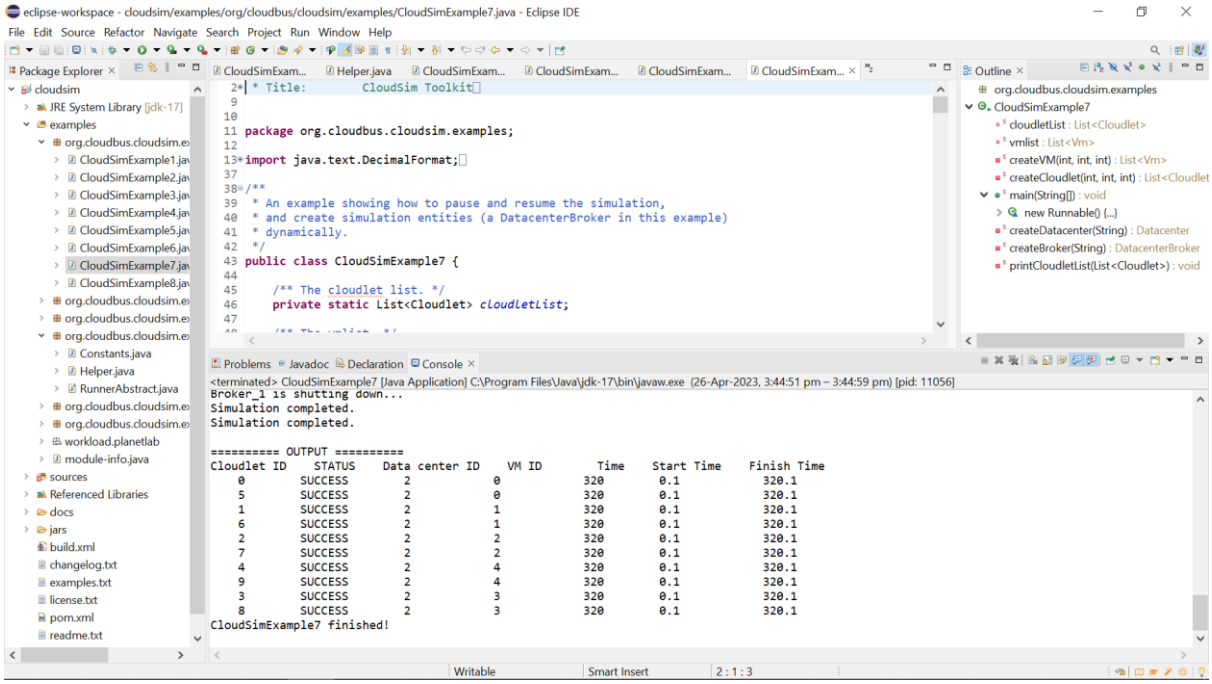
EXAMPLE3:-



EXAMPLE4:-



EXAMPLE5:-


eclipse-workspace - cloudsim/examples/org/cloudbus/cloudsim/examples/CloudSimExample7.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
cloudsim
JRE System Library [jdk-17]
examples
org.cloudbus.cloudsim.ex
CloudSimExample1.ja
CloudSimExample2.ja
CloudSimExample3.ja
CloudSimExample4.ja
CloudSimExample5.ja
CloudSimExample6.ja
CloudSimExample7.ja
CloudSimExample8.ja
org.cloudbus.cloudsim.ex
org.cloudbus.cloudsim.ex
org.cloudbus.cloudsim.ex
Constants.java
Helper.java
RunnerAbstract.java
org.cloudbus.cloudsim.ex
org.cloudbus.cloudsim.ex
workload.planetlab
module-info.java
sources
Referenced Libraries
docs
jars
build.xml
changelog.txt
examples.txt
license.txt
pom.xml
readme.txt
CloudSimExam...
Helper.java
CloudSimExam...
CloudSimExam...
CloudSimExam...
CloudSimExam...
2* * Title: CloudSim Toolkit
9
10
11 package org.cloudbus.cloudsim.examples;
12
13* import java.text.DecimalFormat;
37
38* /**
39 * An example showing how to pause and resume the simulation,
40 * and create simulation entities (a DatacenterBroker in this example)
41 * dynamically.
42 */
43 public class CloudSimExample7 {
44
45 /** The cloudlet list. */
46 private static List<Cloudlet> cloudletList;
47
Outline
org.cloudbus.cloudsim.examples
CloudSimExample7
cloudletList : List<Cloudlet>
vmlist : List<Vm>
createVM(int, int, int) : List<Vm>
createCloudlet(int, int, int) : List<Cloudlet
main(String[]) : void
new Runnable() {...}
createDatacenter(String) : Datacenter
createBroker(String) : DatacenterBroker
printCloudletList(List<Cloudlet>) : void
Problems Javadoc Declaration Console
<terminated> CloudSimExample7 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (26-Apr-2023, 3:44:51 pm – 3:44:59 pm) [pid: 11056]
Broker_1 is shutting down...
Simulation completed.
Simulation completed.
========== OUTPUT ==========
Cloudlet ID STATUS Data center ID VM ID Time Start Time Finish Time
0 SUCCESS 2 0 320 0.1 320.1
5 SUCCESS 2 0 320 0.1 320.1
1 SUCCESS 2 1 320 0.1 320.1
6 SUCCESS 2 1 320 0.1 320.1
2 SUCCESS 2 2 320 0.1 320.1
7 SUCCESS 2 2 320 0.1 320.1
4 SUCCESS 2 4 320 0.1 320.1
9 SUCCESS 2 4 320 0.1 320.1
3 SUCCESS 2 3 320 0.1 320.1
8 SUCCESS 2 3 320 0.1 320.1
CloudSimExample7 finished!
Writable
Smart Insert
2 : 1 : 3