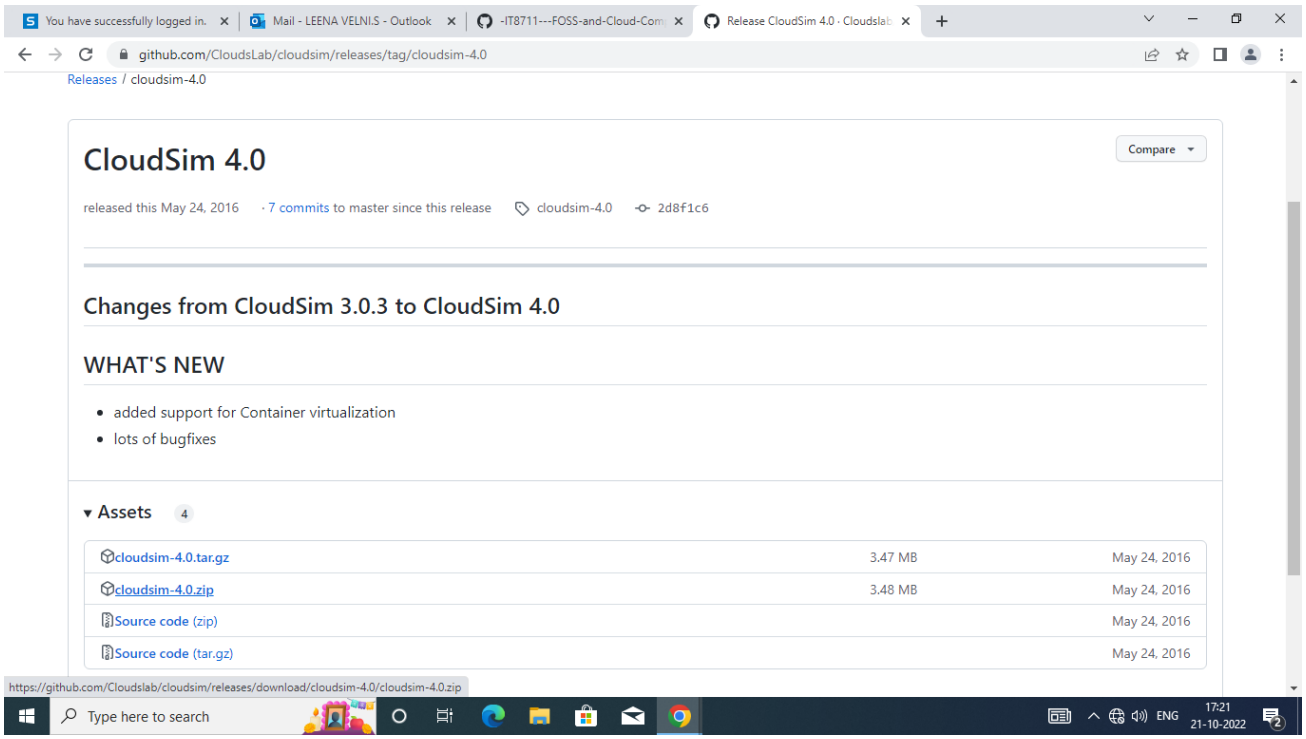
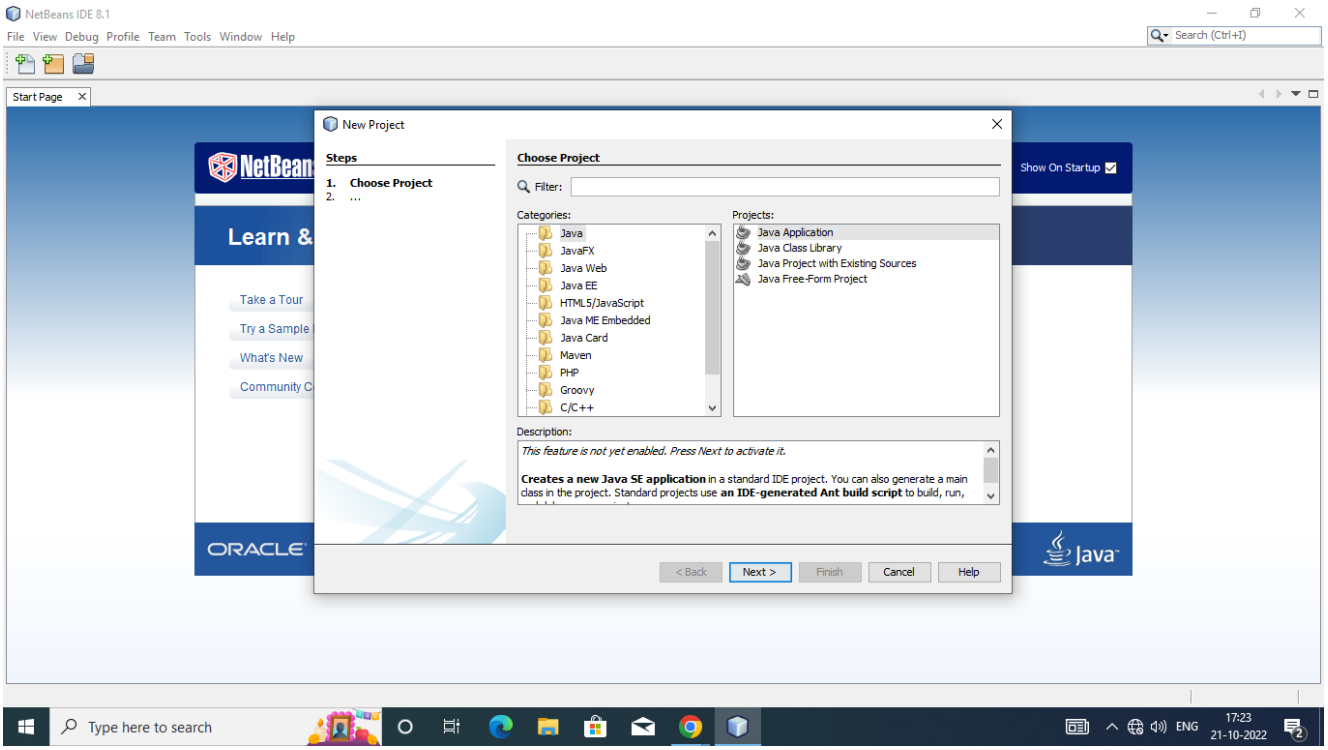
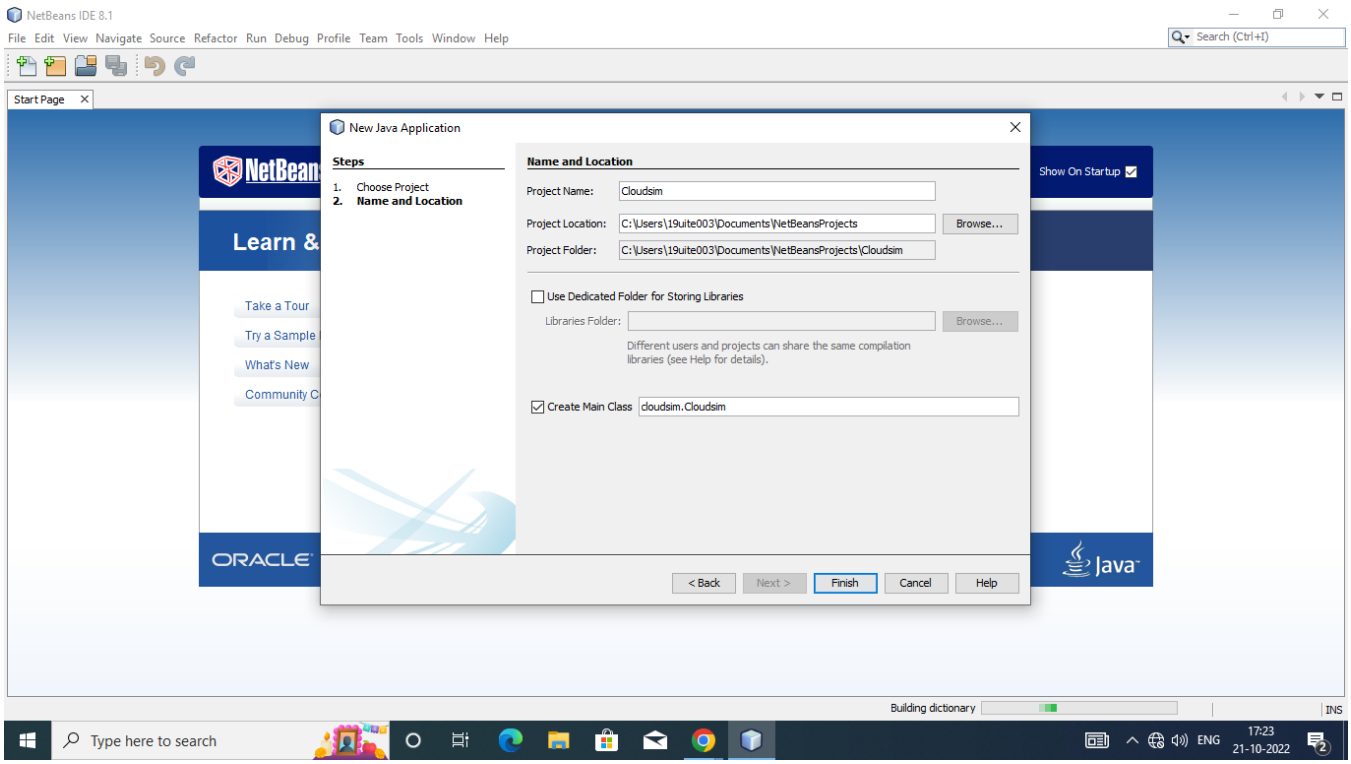
EXERCISE : 6

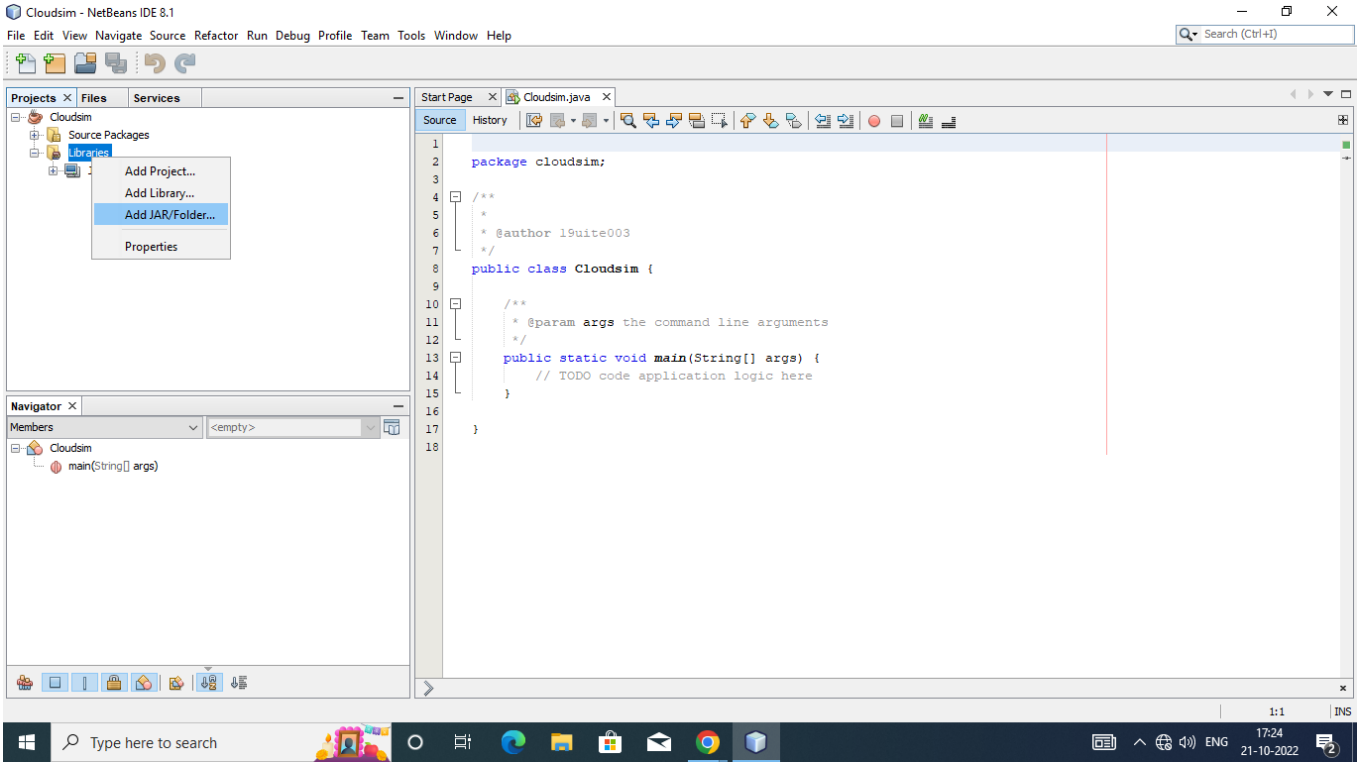
Simulation of VM Scheduling using CloudSim

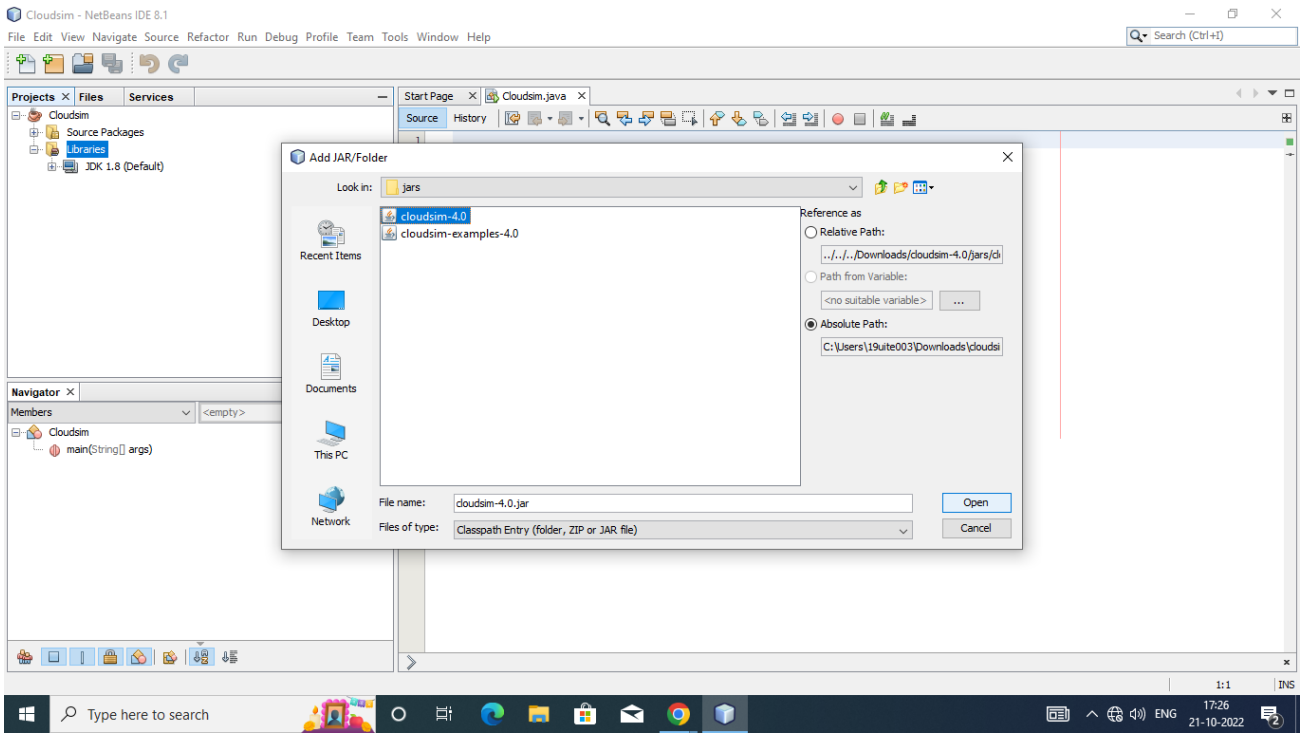
Screenshots:

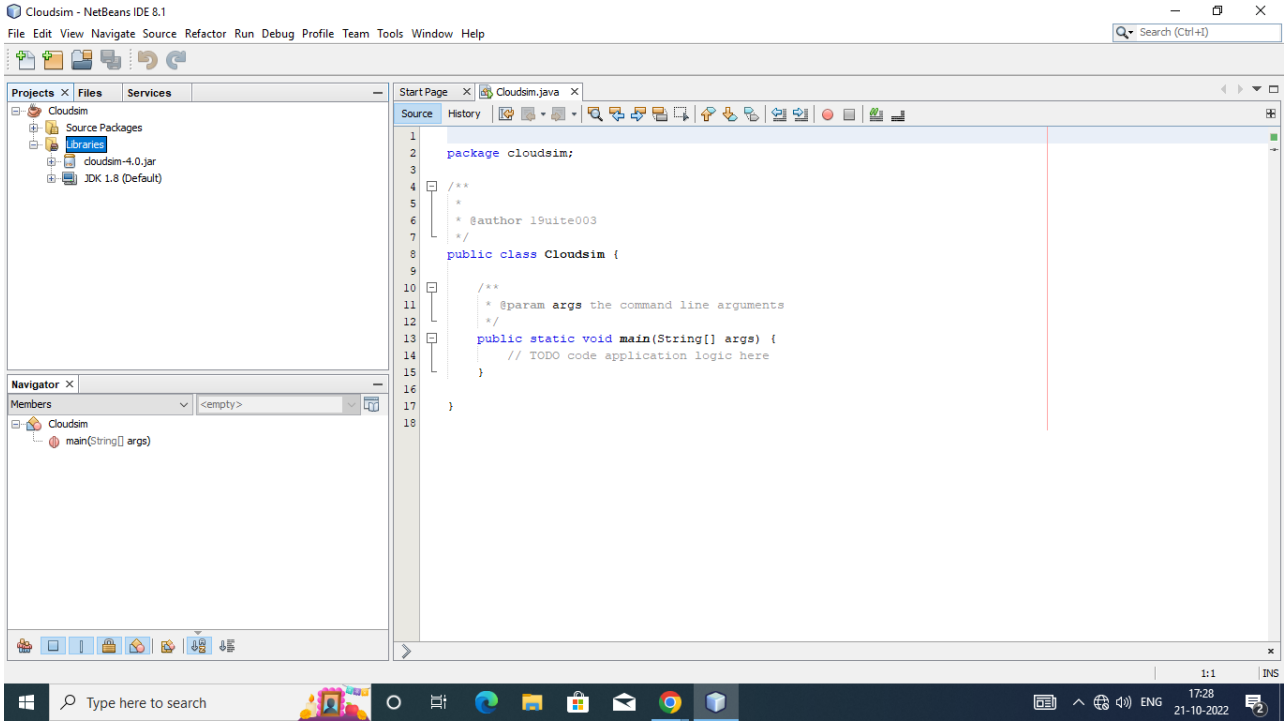


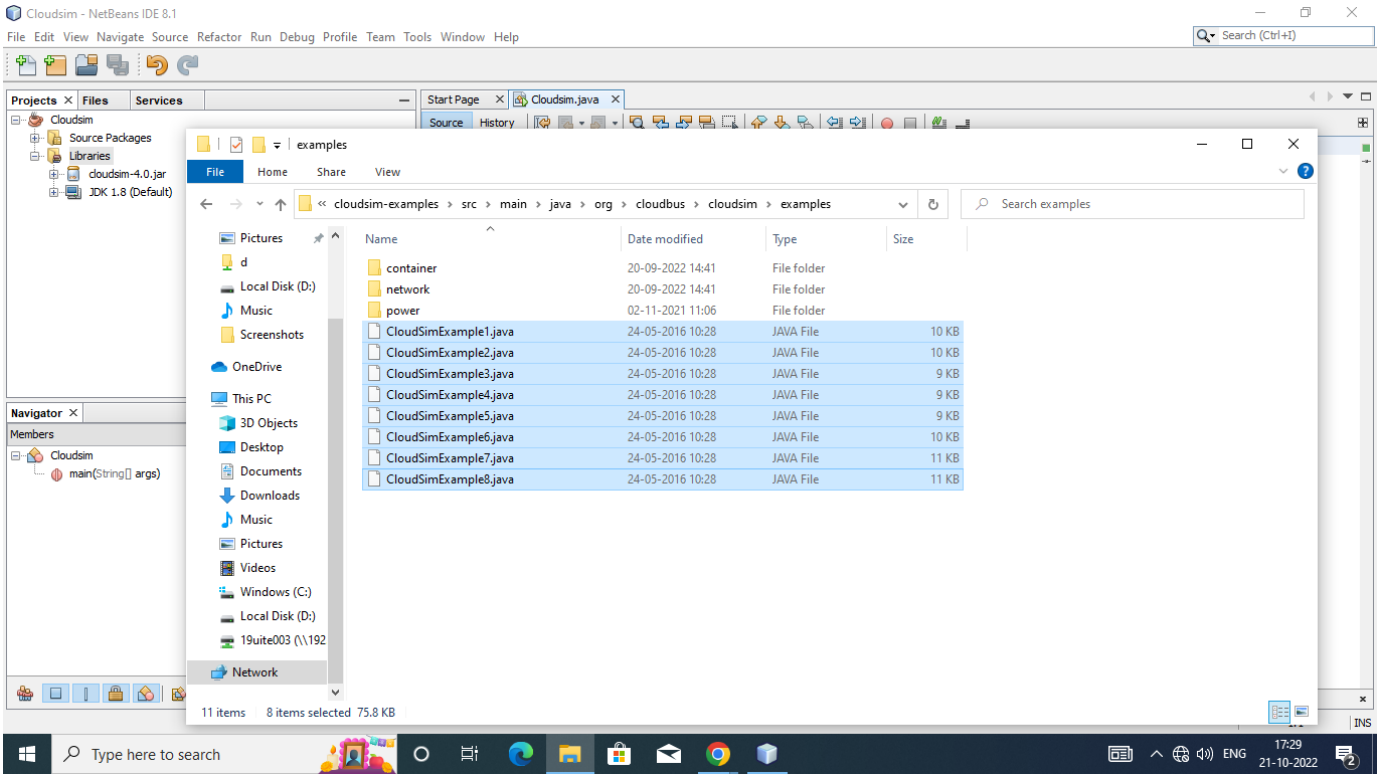


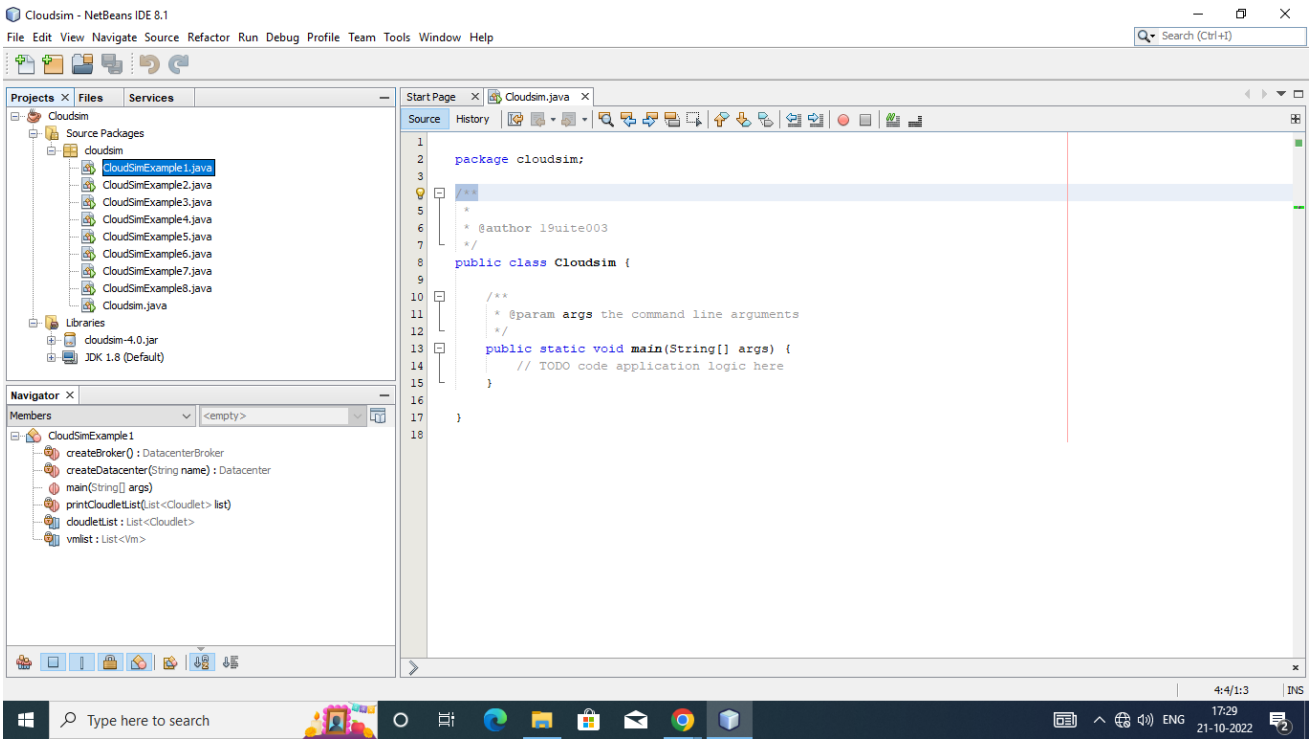

NetBeans IDE 8.1
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Search (Ctrl+I)
Start Page
New Java Application
Steps
1. Choose Project
2. Name and Location
Name and Location
Project Name: Cloudsim
Project Location: C:\Users\19uite003\Documents\NetBeansProjects
Browse...
Project Folder: C:\Users\19uite003\Documents\NetBeansProjects\Cloudsim
Use Dedicated Folder for Storing Libraries
Libraries Folder:
Browse...
Different users and projects can share the same compilation libraries (see Help for details).
Create Main Class cloudsim.Cloudsim
< Back
Next >
Finish
Cancel
Help
Show On Startup
Learn &
Take a Tour
Try a Sample
What's New
Community
ORACLE
Java
Building dictionary
INS
Type here to search
ENG
17:23
21-10-2022

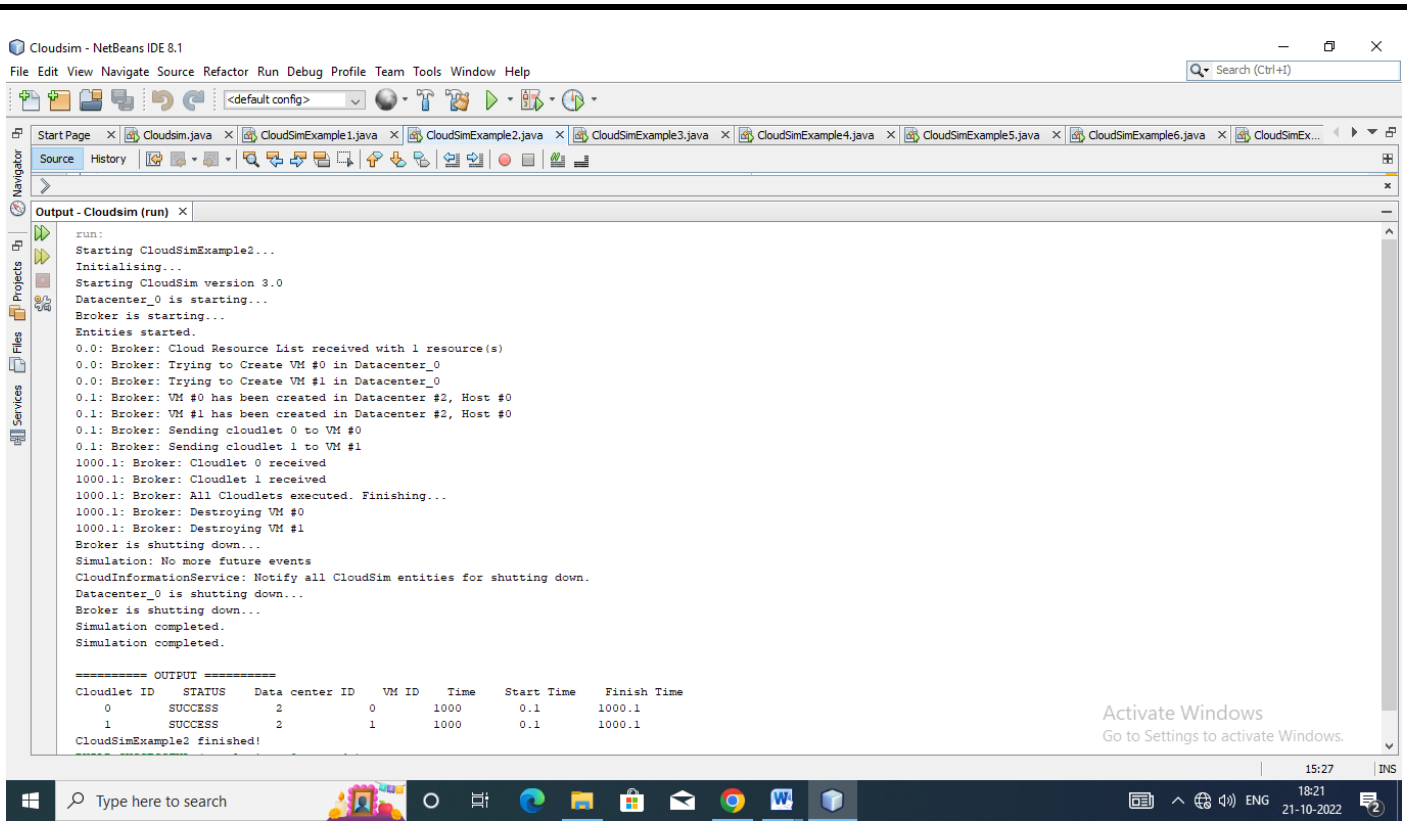

Cloudsim - NetBeans IDE 8.1
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Search (Ctrl+I)
Projects
Files
Services
Cloudsim
Source Packages
Libraries
Add Project...
Add Library...
Add JAR/Folder...
Properties
Navigator
Members
<empty>
Cloudsim
main(String[] args)
Start Page
Cloudsim.java
Source
History
1 package cloudsim;
3 /**
4 *
5 * @author 19uite003
6 */
7 public class Cloudsim {
9 /**
10 * @param args the command line arguments
11 */
12 public static void main(String[] args) {
13 // TODO code application logic here
14 }
16 }
17
1:1
INS
Type here to search
ENG
17:24
21-10-2022


Cloudsim - NetBeans IDE 8.1
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Search (Ctrl+I)
Projects Files Services
Cloudsim
Source Packages
Libraries
JDK 1.8 (Default)
Start Page
Cloudsim.java
Source History
Add JAR/Folder
Look in:
jars
cloudsim-4.0
cloudsim-examples-4.0
Recent Items
Desktop
Documents
This PC
Network
Reference as
Relative Path:
../../../Downloads/cloudsim-4.0/jars/cl
Path from Variable:
<no suitable variable>
Absolute Path:
C:\Users\19uite003\Downloads\cloudsi
File name:
cloudsim-4.0.jar
Files of type:
Classpath Entry (folder, ZIP or JAR file)
Open
Cancel
Navigator
Members
<empty>
Cloudsim
main(String[] args)
1:1
INS
Type here to search
ENG
17:26
21-10-2022


Cloudsim - NetBeans IDE 8.1
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Search (Ctrl+I)
Projects Files Services
Cloudsim
Source Packages
Libraries
cloudsim-4.0.jar
JDK 1.8 (Default)
Start Page
Cloudsim.java
Source History
1 package cloudsim;
2
3 /**
4 *
5 * @author 19uite003
6 */
7 public class Cloudsim {
8
9 /**
10 * @param args the command line arguments
11 */
12 public static void main(String[] args) {
13 // TODO code application logic here
14 }
15
16 }
17
Navigator
Members
<empty>
Cloudsim
main(String[] args)
1:1
INS
Type here to search
ENG
17:28
21-10-2022


Cloudsim - NetBeans IDE 8.1
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Search (Ctrl+I)
Projects
Files
Services
Cloudsim
Source Packages
Libraries
cloudsim-4.0.jar
JDK 1.8 (Default)
Start Page
Cloudsim.java
Source
History
examples
File
Home
Share
View
cloudsim-examples › src › main › java › org › cloudbus › cloudsim › examples
Search examples
Pictures
d
Local Disk (D:)
Music
Screenshots
OneDrive
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Windows (C:)
Local Disk (D:)
19uite003 (\\192
Network
Name
Date modified
Type
Size
container 20-09-2022 14:41 File folder
network 20-09-2022 14:41 File folder
power 02-11-2021 11:06 File folder
CloudSimExample1.java 24-05-2016 10:28 JAVA File 10 KB
CloudSimExample2.java 24-05-2016 10:28 JAVA File 10 KB
CloudSimExample3.java 24-05-2016 10:28 JAVA File 9 KB
CloudSimExample4.java 24-05-2016 10:28 JAVA File 9 KB
CloudSimExample5.java 24-05-2016 10:28 JAVA File 9 KB
CloudSimExample6.java 24-05-2016 10:28 JAVA File 10 KB
CloudSimExample7.java 24-05-2016 10:28 JAVA File 11 KB
CloudSimExample8.java 24-05-2016 10:28 JAVA File 11 KB
11 items
8 items selected 75.8 KB
Navigator
Members
Cloudsim
main(String[] args)
Type here to search
ENG
17:29
21-10-2022


Cloudsim - NetBeans IDE 8.1
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Search (Ctrl+I)
Projects
Files
Services
Cloudsim
Source Packages
cloudsim
CloudSimExample1.java
CloudSimExample2.java
CloudSimExample3.java
CloudSimExample4.java
CloudSimExample5.java
CloudSimExample6.java
CloudSimExample7.java
CloudSimExample8.java
Cloudsim.java
Libraries
cloudsim-4.0.jar
JDK 1.8 (Default)
Navigator
Members
<empty>
CloudSimExample1
createBroker() : DatacenterBroker
createDatacenter(String name) : Datacenter
main(String[] args)
printCloudletList(List<Cloudlet> list)
cloudletList : List<Cloudlet>
vmlist : List<Vm>
Start Page
Cloudsim.java
Source
History
1 package cloudsim;
2
3 /**
4 *
5 * @author 19uite003
6 */
7 public class Cloudsim {
8
9 /**
10 * @param args the command line arguments
11 */
12 public static void main(String[] args) {
13 // TODO code application logic here
14 }
15
16 }
17
18
4:4/1:3
INS
Type here to search
ENG
17:29
21-10-2022


Cloudsim - NetBeans IDE 8.1
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Search (Ctrl+I)
<default config>
Start Page
Cloudsim.java
CloudSimExample1.java
CloudSimExample2.java
CloudSimExample3.java
CloudSimExample4.java
CloudSimExample5.java
CloudSimExample6.java
Source
History
Output - Cloudsim (run)
run:
Starting CloudSimExample2...
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
0.0: Broker: Trying to Create VM #1 in Datacenter_0
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: Sending cloudlet 0 to VM #0
0.1: Broker: Sending cloudlet 1 to VM #1
1000.1: Broker: Cloudlet 0 received
1000.1: Broker: Cloudlet 1 received
1000.1: Broker: All Cloudlets executed. Finishing...
1000.1: Broker: Destroying VM #0
1000.1: Broker: Destroying VM #1
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
0 SUCCESS 2 0 1000 0.1 1000.1
1 SUCCESS 2 1 1000 0.1 1000.1
CloudSimExample2 finished!
Activate Windows
Go to Settings to activate Windows.
15:27
INS
Type here to search
ENG
18:21
21-10-2022