

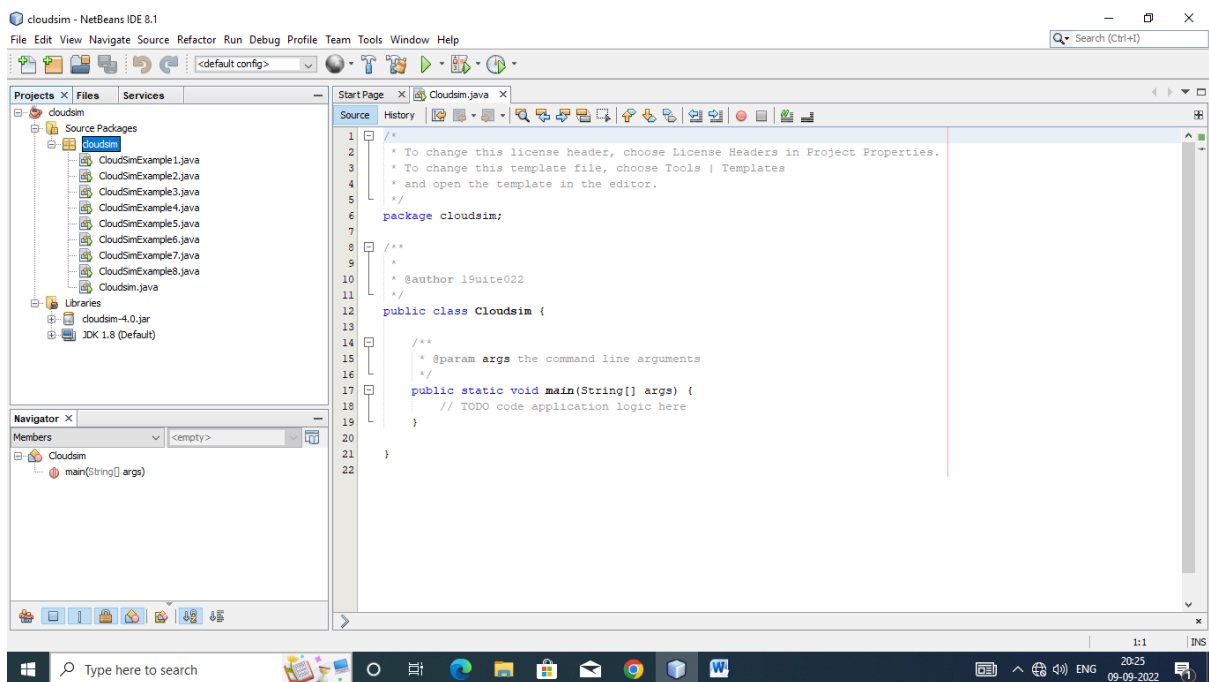
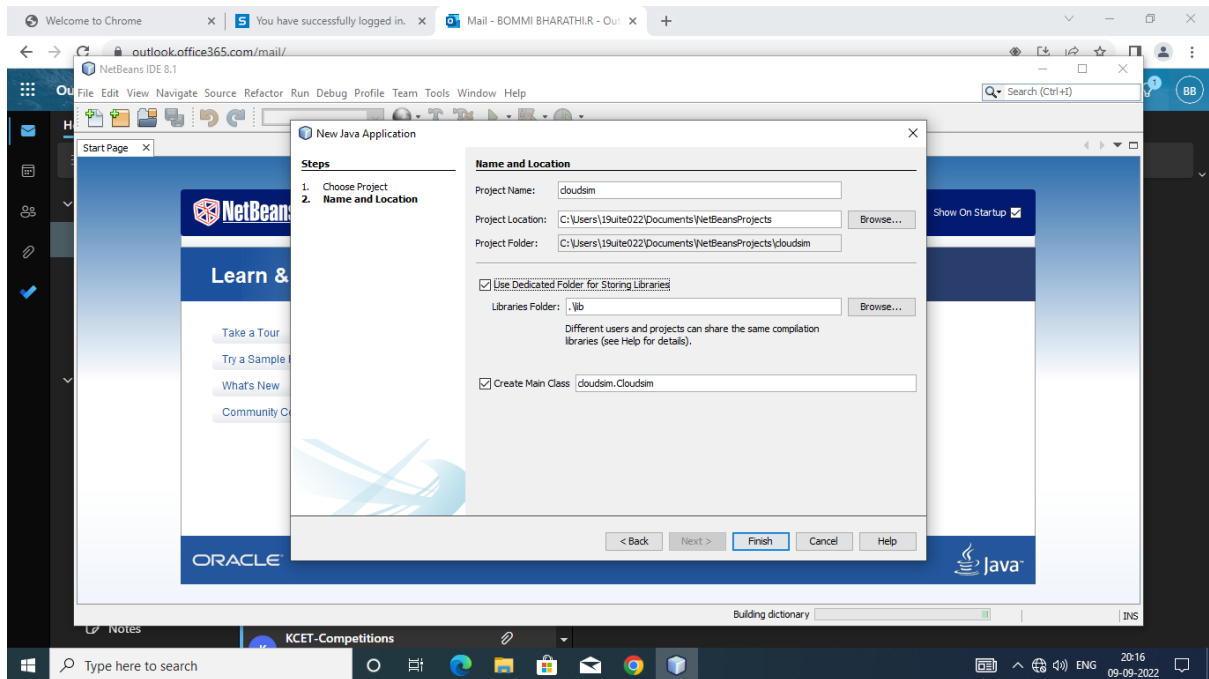
NAME : B.SRINITHI

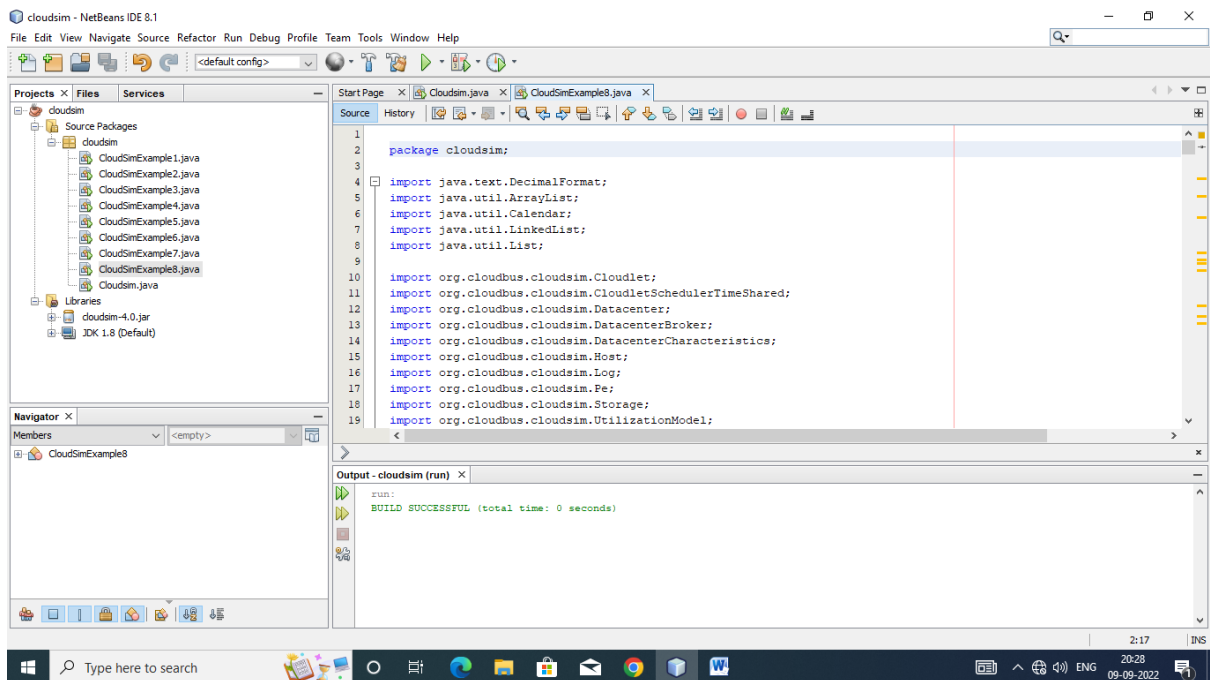
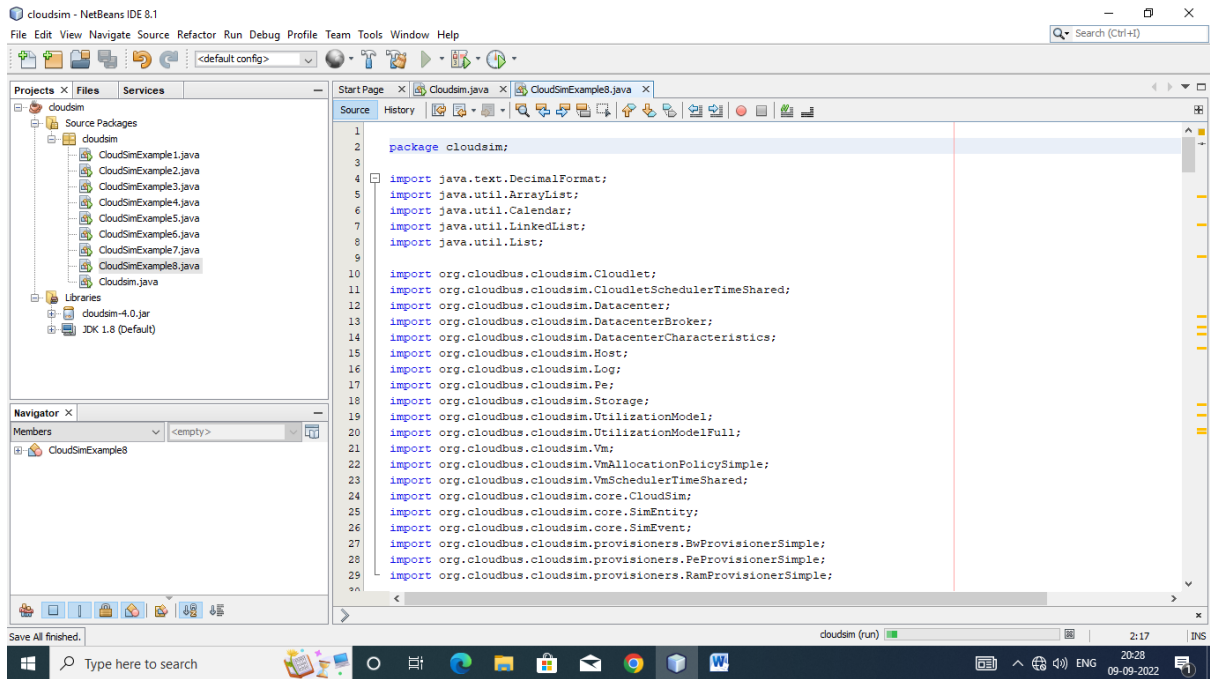
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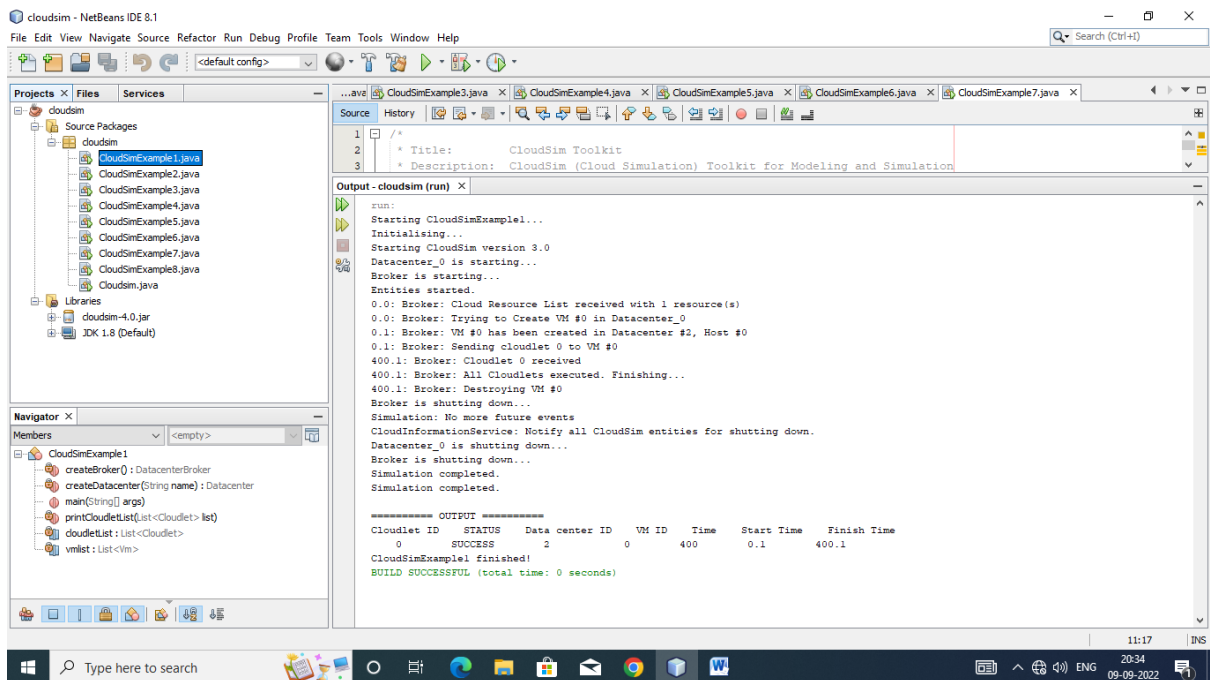
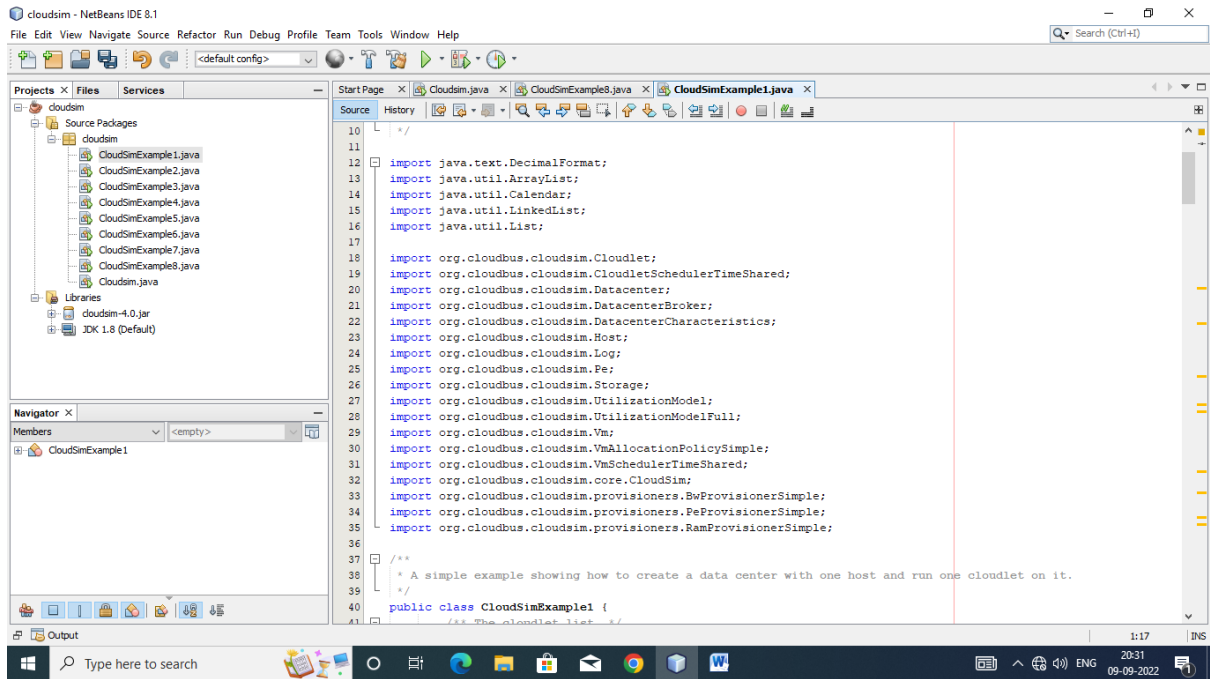
EX NO : 6

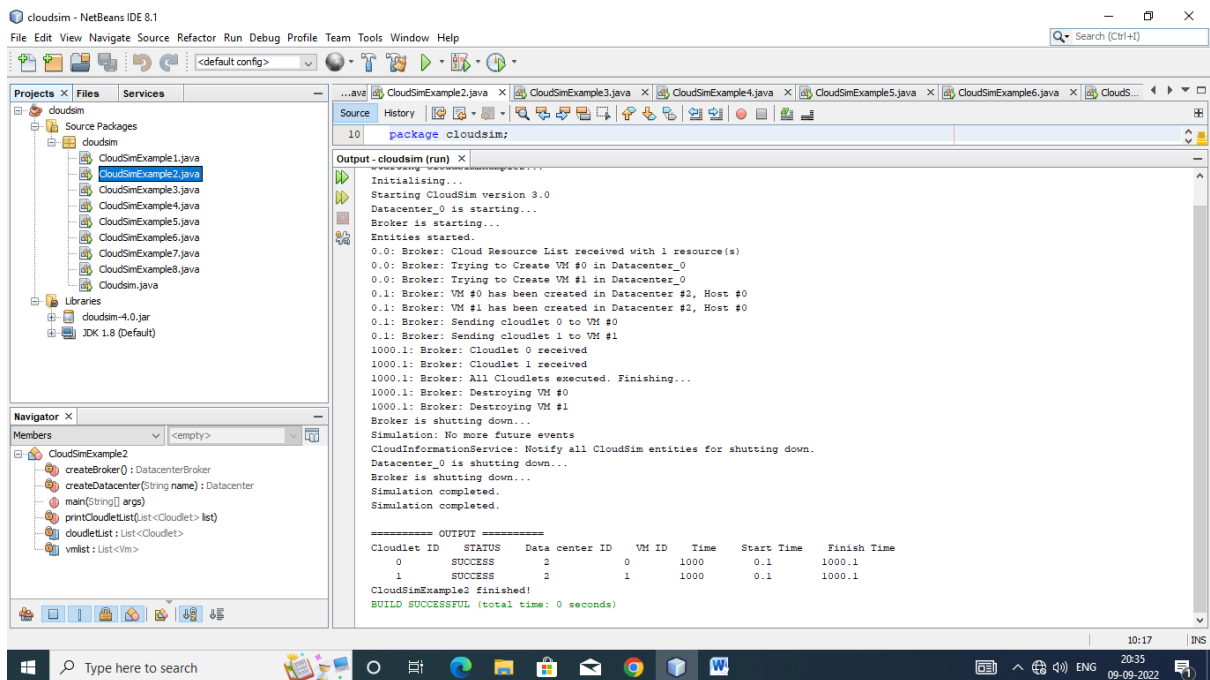
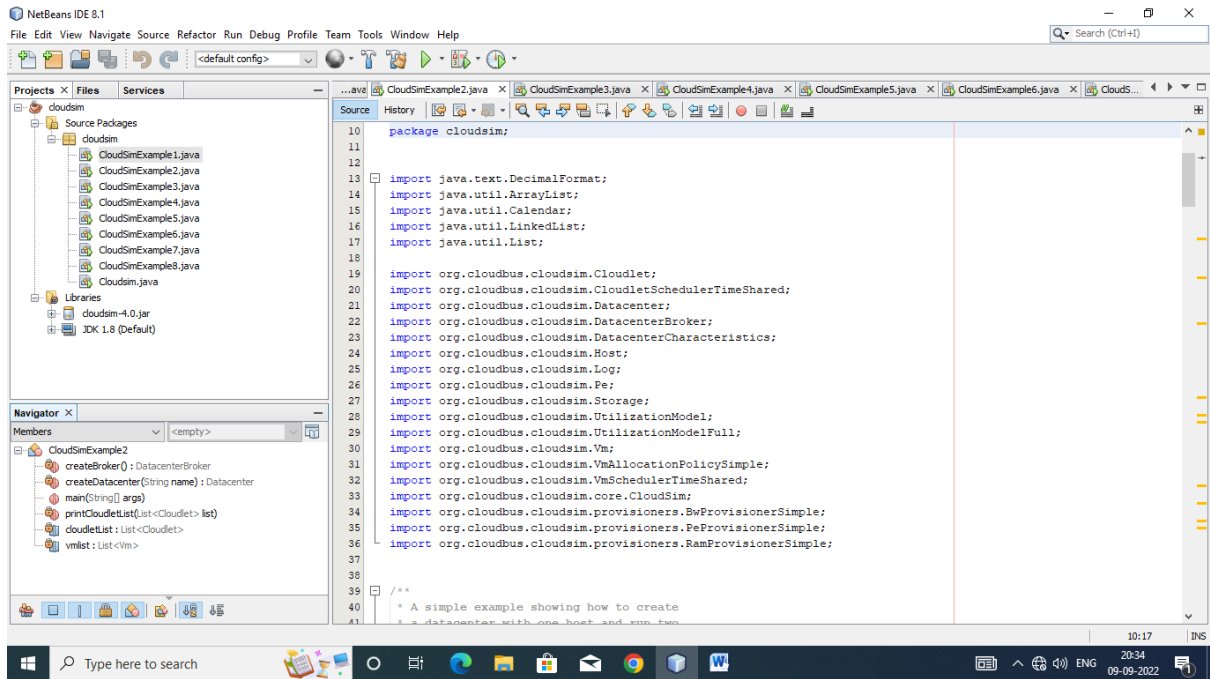
EX NAME : Simulation Of VM Scheduling Using Cloudsim

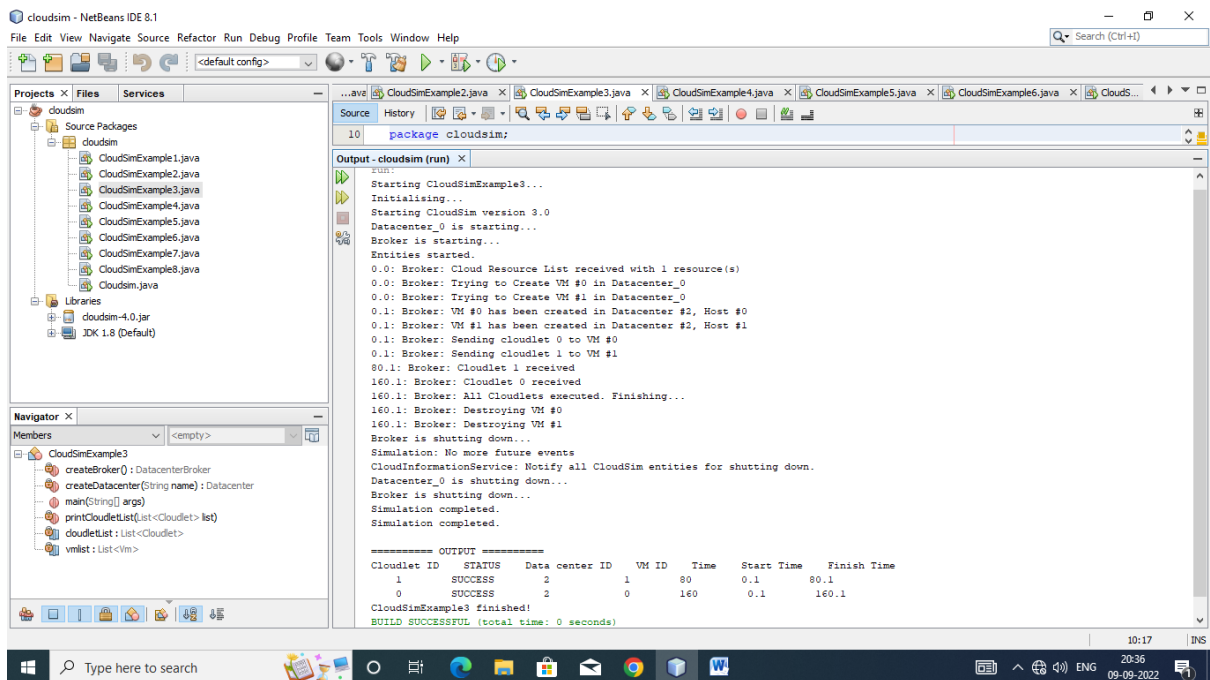
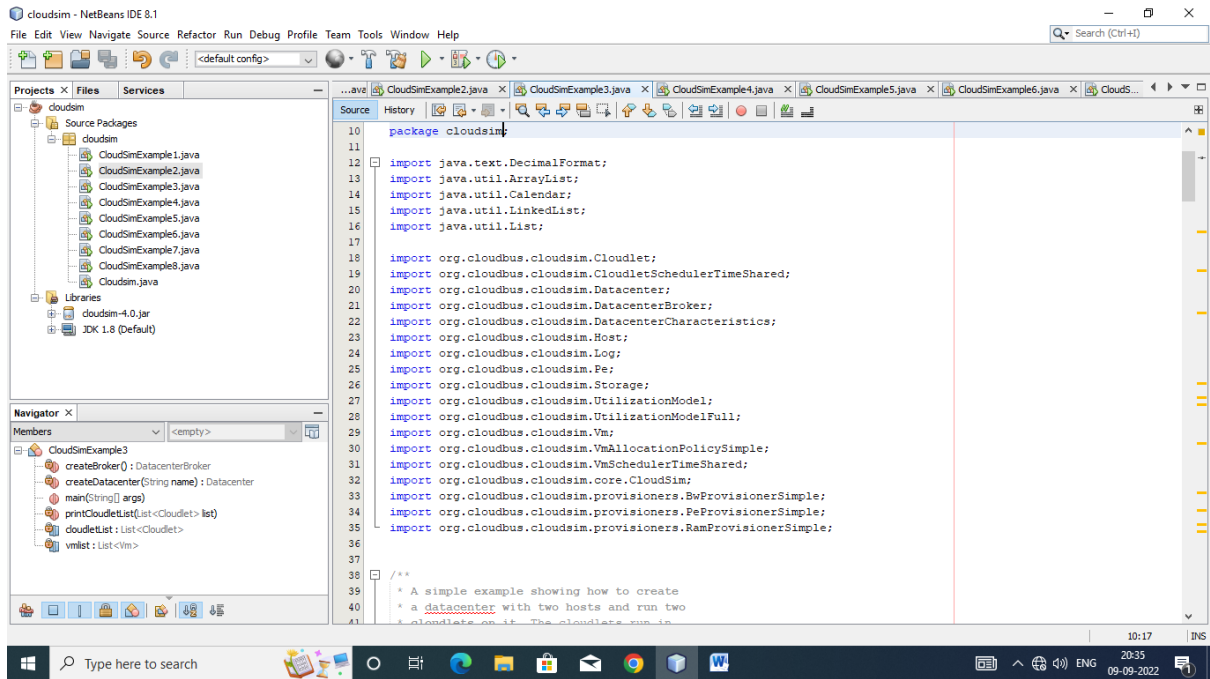
DATE : 07/10/2022

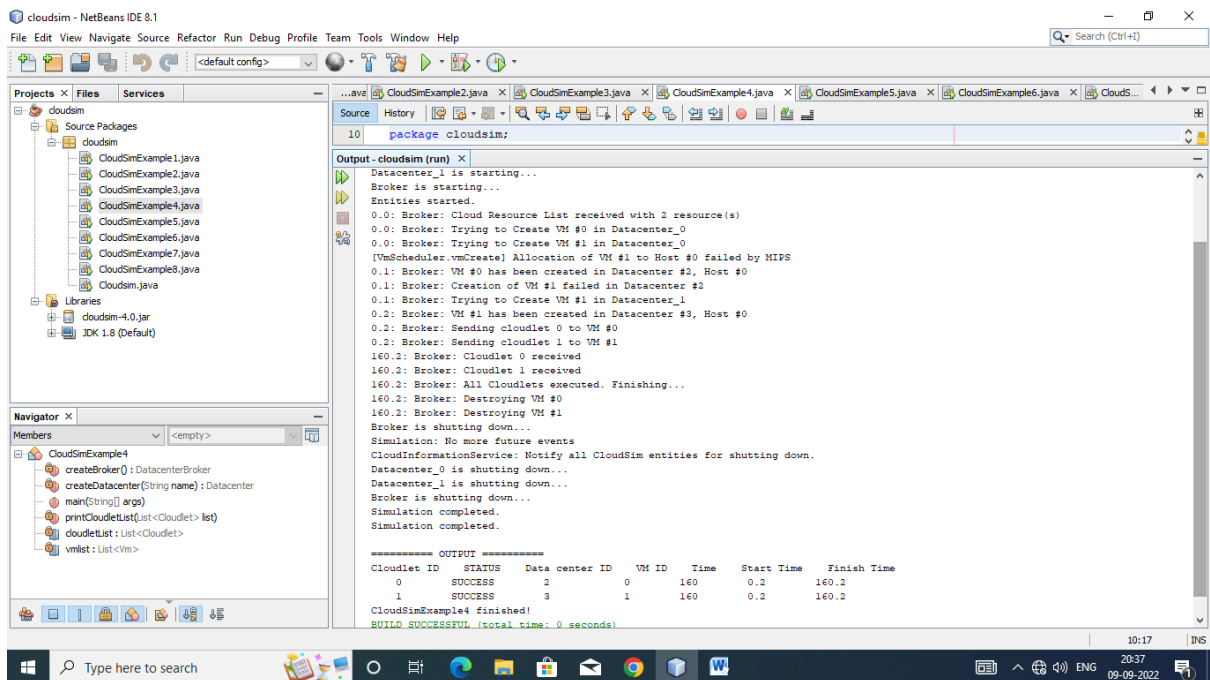
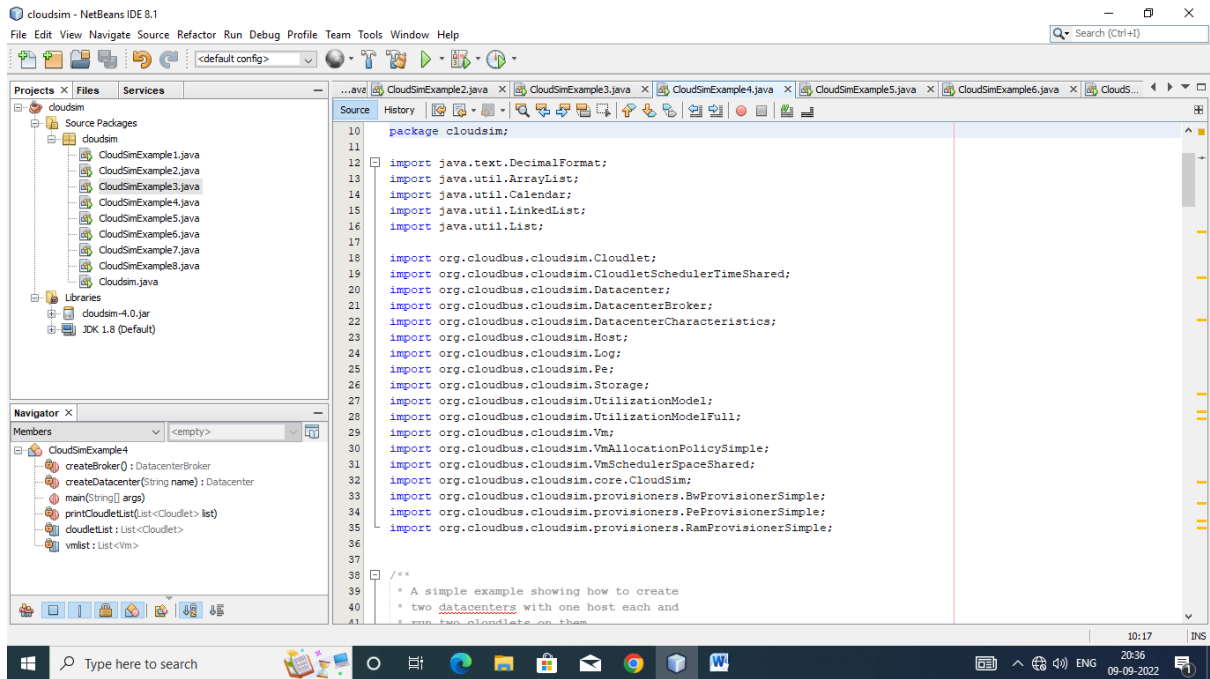


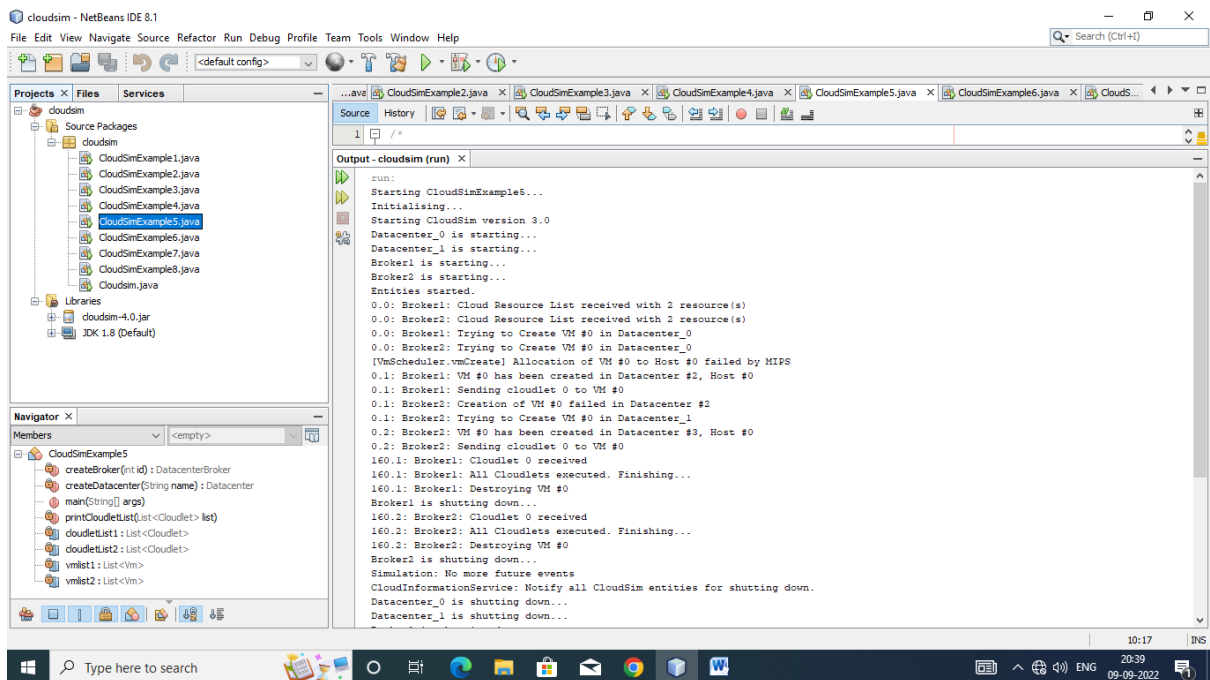
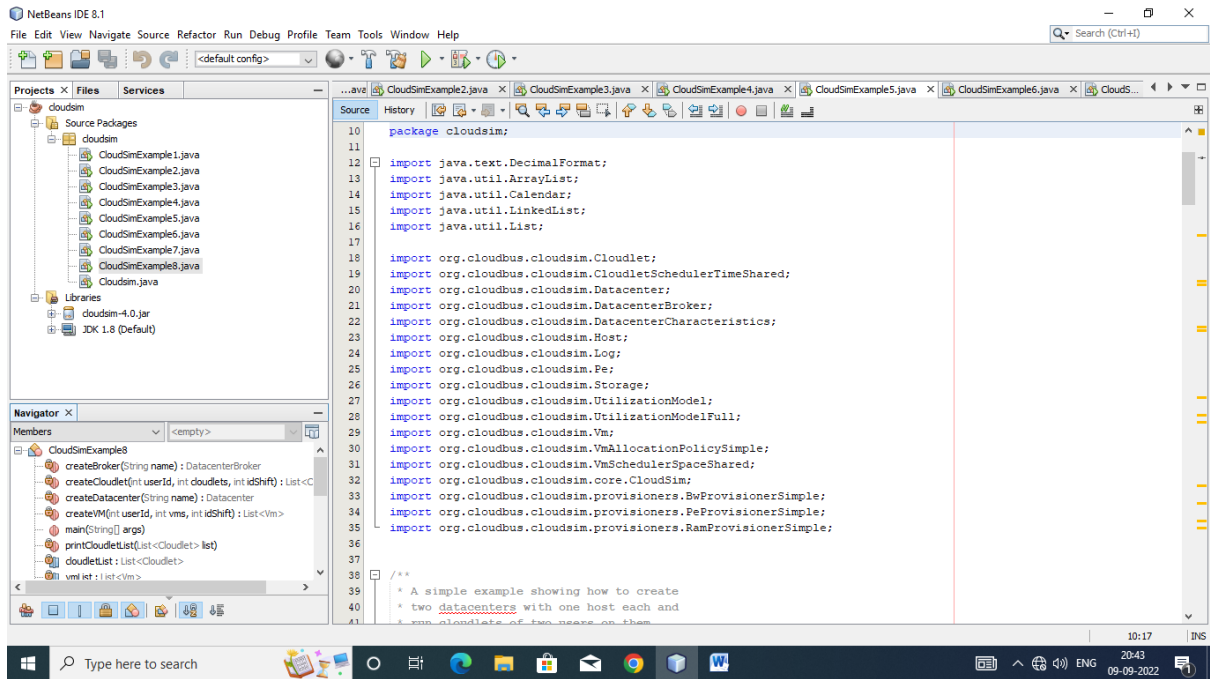


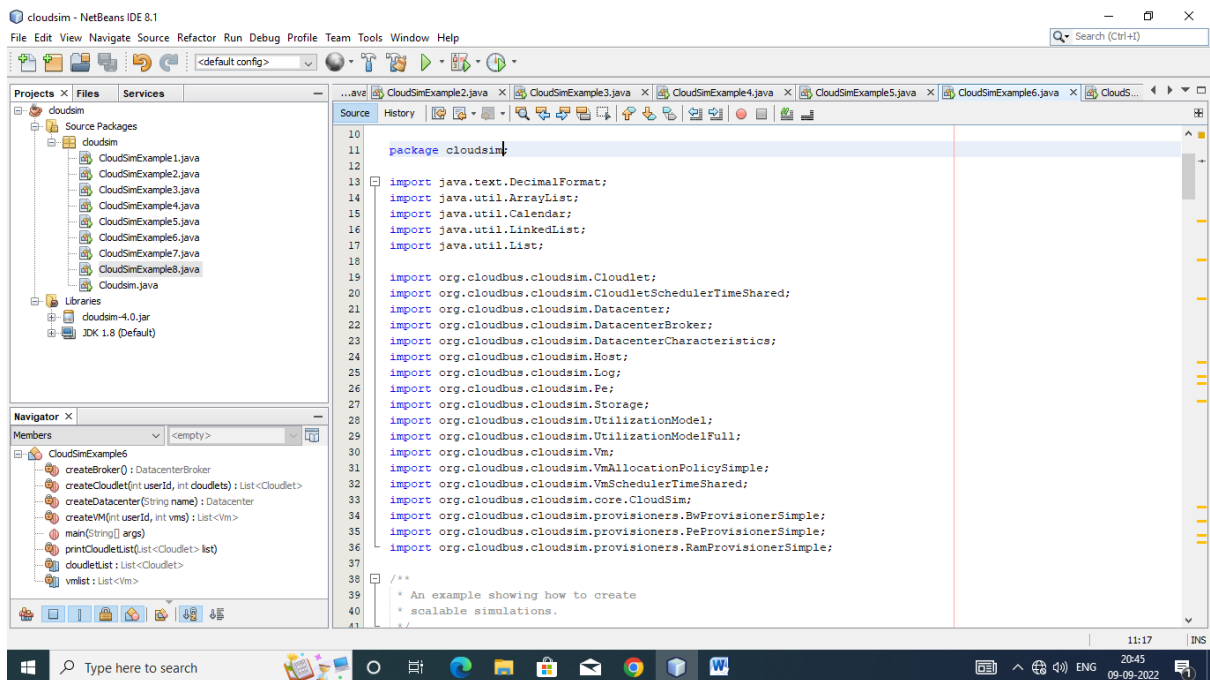
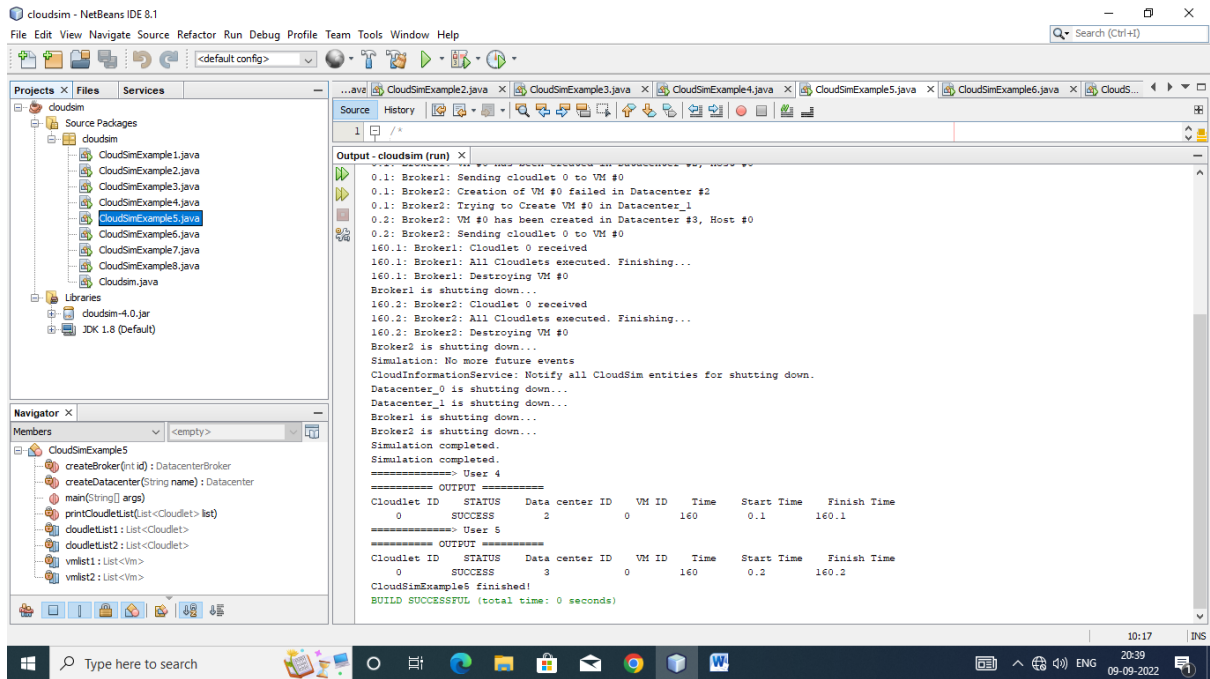












cloudsim - NetBeans IDE 8.1

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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

CloudSimExample6

createBroker(): DatacenterBroker

createCloudlet(int userId, int cloudlets): List<Cloudlet>

createDatacenter(String name): Datacenter

createVM(int userId, int vms): List<Vm>

main(String[] args)

printCloudletList(List<Cloudlet> list)

cloudletList: List<Cloudlet>

vmList: List<Vm>

Source History

Output - cloudsim (run)

```
run:
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
0.0: Broker: Trying to Create VM #10 in Datacenter_0
0.0: Broker: Trying to Create VM #11 in Datacenter_0
0.0: Broker: Trying to Create VM #12 in Datacenter_0
0.0: Broker: Trying to Create VM #13 in Datacenter_0
0.0: Broker: Trying to Create VM #14 in Datacenter_0
0.0: Broker: Trying to Create VM #15 in Datacenter_0
0.0: Broker: Trying to Create VM #16 in Datacenter_0
0.0: Broker: Trying to Create VM #17 in Datacenter_0
0.0: Broker: Trying to Create VM #18 in Datacenter_0
0.0: Broker: Trying to Create VM #19 in Datacenter_0
[VmScheduler.vmsCreate] Allocation of VM #6 to Host #0 failed by RAM
[VmScheduler.vmsCreate] Allocation of VM #6 to Host #1 failed by MIPS
[VmScheduler.vmsCreate] Allocation of VM #7 to Host #0 failed by RAM
```

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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

CloudSimExample6

createBroker(): DatacenterBroker

createCloudlet(int userId, int cloudlets): List<Cloudlet>

createDatacenter(String name): Datacenter

createVM(int userId, int vms): List<Vm>

main(String[] args)

printCloudletList(List<Cloudlet> list)

cloudletList: List<Cloudlet>

vmList: List<Vm>

Source History

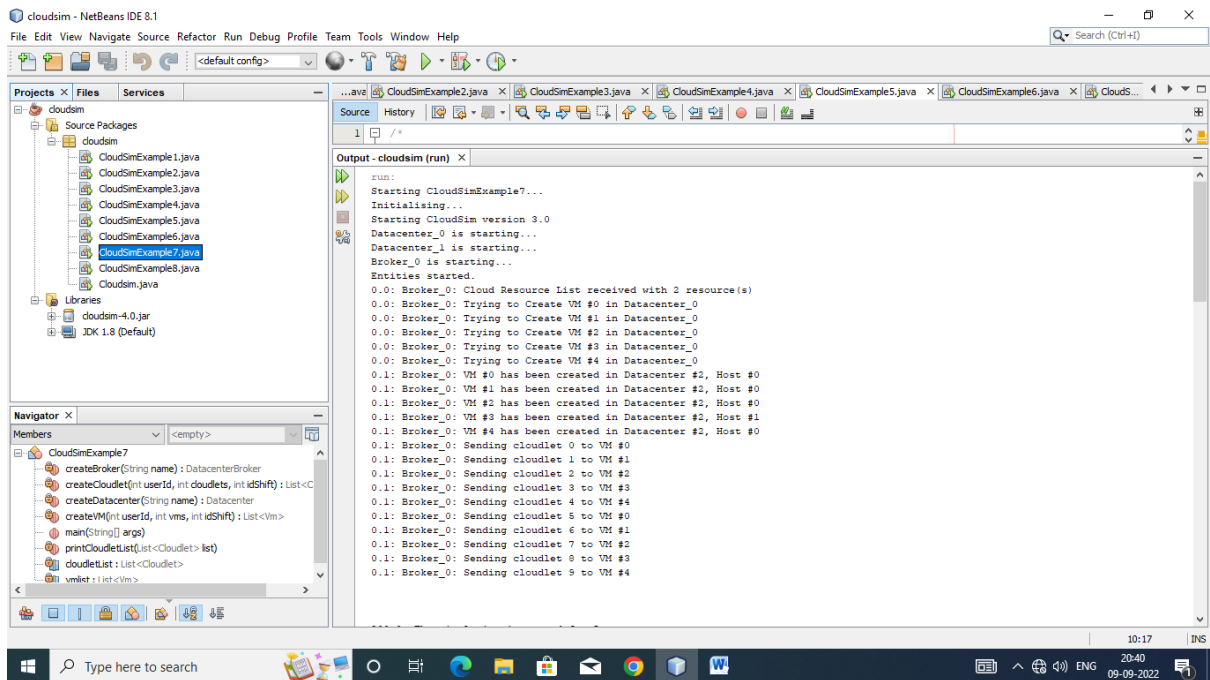
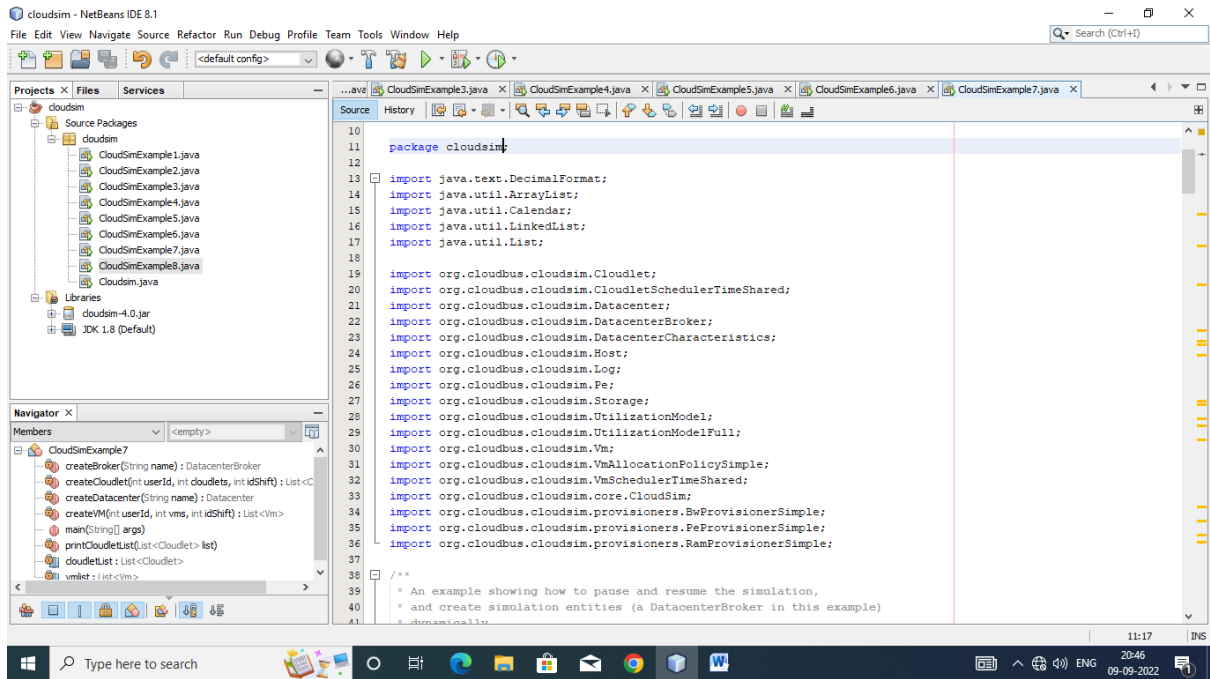
Output - cloudsim (run)

Time	Status	VM	Host	RAM	MIPS	Cost
31	SUCCESS	3	7	3	0.2	3.2
8	SUCCESS	3	8	3	0.2	3.2
20	SUCCESS	3	8	3	0.2	3.2
32	SUCCESS	3	8	3	0.2	3.2
10	SUCCESS	3	10	3	0.2	3.2
22	SUCCESS	3	10	3	0.2	3.2
34	SUCCESS	3	10	3	0.2	3.2
9	SUCCESS	3	9	3	0.2	3.2
21	SUCCESS	3	9	3	0.2	3.2
33	SUCCESS	3	9	3	0.2	3.2
11	SUCCESS	3	11	3	0.2	3.2
23	SUCCESS	3	11	3	0.2	3.2
35	SUCCESS	3	11	3	0.2	3.2
0	SUCCESS	2	0	4	0.2	4.2
12	SUCCESS	2	0	4	0.2	4.2
24	SUCCESS	2	0	4	0.2	4.2
36	SUCCESS	2	0	4	0.2	4.2
1	SUCCESS	2	1	4	0.2	4.2
13	SUCCESS	2	1	4	0.2	4.2
25	SUCCESS	2	1	4	0.2	4.2
37	SUCCESS	2	1	4	0.2	4.2
2	SUCCESS	2	2	4	0.2	4.2
14	SUCCESS	2	2	4	0.2	4.2
26	SUCCESS	2	2	4	0.2	4.2
38	SUCCESS	2	2	4	0.2	4.2
3	SUCCESS	2	3	4	0.2	4.2
15	SUCCESS	2	3	4	0.2	4.2
27	SUCCESS	2	3	4	0.2	4.2
39	SUCCESS	2	3	4	0.2	4.2

CloudSimExample6 finished!

BUILD SUCCESSFUL (total time: 0 seconds)

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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

CloudSimExample7

createBroker(String name): DatacenterBroker

createCloudlet(int userId, int cloudlets, int idShift): List<Cloudlet>

createDatacenter(String name): Datacenter

createVM(int userId, int vms, int idShift): List<Vm>

main(String[] args)

printCloudletList(List<Cloudlet> list)

cloudletList: List<Cloudlet>

vmList: List<Vm>

Source History

Output - cloudsim (run)

```

519.996: Broker_1: Cloudlet 109 received
519.996: Broker_1: All Cloudlets executed. Finishing...
519.996: Broker_1: Destroying VM #100
519.996: Broker_1: Destroying VM #101
519.996: Broker_1: Destroying VM #102
519.996: Broker_1: Destroying VM #103
519.996: Broker_1: Destroying VM #104
Broker_1 is shutting down...
Simulation: No more future events
CloudInformationService: Notify all CloudSim entities for shutting down.
Datacenter_0 is shutting down...
Datacenter_1 is shutting down...
Broker_0 is shutting down...
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
2           SUCCESS    2             2      320    0.1         320.1
6           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!
BUILD SUCCESSFUL (total time: 6 seconds)

```

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Projects Files Services

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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

CloudSimExample8

createBroker(String name): DatacenterBroker

createCloudlet(int userId, int cloudlets, int idShift): List<Cloudlet>

createDatacenter(String name): Datacenter

createVM(int userId, int vms, int idShift): List<Vm>

main(String[] args)

printCloudletList(List<Cloudlet> list)

cloudletList: List<Cloudlet>

vmList: List<Vm>

Source History

Output - cloudsim (run)

```

run:
Starting CloudSimExample8...
Initialising...
Starting CloudSim version 3.0
GlobalBroker is starting...
Datacenter_0 is starting...
Datacenter_1 is starting...
Broker_0 is starting...
Entities started.
0.0: Broker_0: Cloud Resource List received with 2 resource(s)
0.0: Broker_0: Trying to Create VM #0 in Datacenter_0
0.0: Broker_0: Trying to Create VM #1 in Datacenter_0
0.0: Broker_0: Trying to Create VM #2 in Datacenter_0
0.0: Broker_0: Trying to Create VM #3 in Datacenter_0
0.0: Broker_0: Trying to Create VM #4 in Datacenter_0
0.1: Broker_0: VM #0 has been created in Datacenter #3, Host #0
0.1: Broker_0: VM #1 has been created in Datacenter #3, Host #0
0.1: Broker_0: VM #2 has been created in Datacenter #3, Host #0
0.1: Broker_0: VM #3 has been created in Datacenter #3, Host #1
0.1: Broker_0: VM #4 has been created in Datacenter #3, Host #0
0.1: Broker_0: Sending cloudlet 0 to VM #0
0.1: Broker_0: Sending cloudlet 1 to VM #1
0.1: Broker_0: Sending cloudlet 2 to VM #2
0.1: Broker_0: Sending cloudlet 3 to VM #3
0.1: Broker_0: Sending cloudlet 4 to VM #4
0.1: Broker_0: Sending cloudlet 5 to VM #0
0.1: Broker_0: Sending cloudlet 6 to VM #1
0.1: Broker_0: Sending cloudlet 7 to VM #2
0.1: Broker_0: Sending cloudlet 8 to VM #3
0.1: Broker_0: Sending cloudlet 9 to VM #4
Adding: GlobalBroker_
GlobalBroker_ is starting...

```

Finished building cloudsim (run).

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cloudsim - NetBeans IDE 8.1

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Projects Files Services

cloudsim

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 - 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

- CloudSimExample8
 - createBroker(String name): DatacenterBroker
 - createCloudlet(int userId, int cloudlets, int idShift): List<Cloudlet>
 - createDatacenter(String name): Datacenter
 - createVM(int userId, int vms, int idShift): List<Vm>
 - main(String[] args)
 - printCloudletList(List<Cloudlet> list)
 - cloudletList: List<Cloudlet>
 - vmlist: List<Vm>

Source History

Output - cloudsim (run)

```
Datacenter_0 is shutting down...
Datacenter_1 is shutting down...
Broker_0 is shutting down...
GlobalBroker_ is shutting down...
Simulation completed.
Simulation completed.
```

Cloudlet ID	STATUS	Data center ID	VM ID	Time	Start Time	Finish Time
0	SUCCESS	3	0	320	0.1	320.1
5	SUCCESS	3	0	320	0.1	320.1
1	SUCCESS	3	1	320	0.1	320.1
6	SUCCESS	3	1	320	0.1	320.1
2	SUCCESS	3	2	320	0.1	320.1
7	SUCCESS	3	2	320	0.1	320.1
4	SUCCESS	3	4	320	0.1	320.1
9	SUCCESS	3	4	320	0.1	320.1
3	SUCCESS	3	3	320	0.1	320.1
8	SUCCESS	3	3	320	0.1	320.1
101	SUCCESS	3	101	320	200.1	520.1
106	SUCCESS	3	101	320	200.1	520.1
103	SUCCESS	3	103	320	200.1	520.1
108	SUCCESS	3	103	320	200.1	520.1
100	SUCCESS	3	100	320	200.1	520.1
105	SUCCESS	3	100	320	200.1	520.1
102	SUCCESS	3	102	320	200.1	520.1
107	SUCCESS	3	102	320	200.1	520.1
104	SUCCESS	3	104	320	200.1	520.1
109	SUCCESS	3	104	320	200.1	520.1

CloudSimExample8 finished!
BUILD SUCCESSFUL (total time: 0 seconds)

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09-09-2022