Exp No: 8 Date: 25/09/2024

CLOUD SIMULATION

IMPLEMENT ROUND ROBIN TASK SCHEDULING IN BOTH TIME SHARED AND SPACE SHARED CPU ASSIGNMENT

AIM:

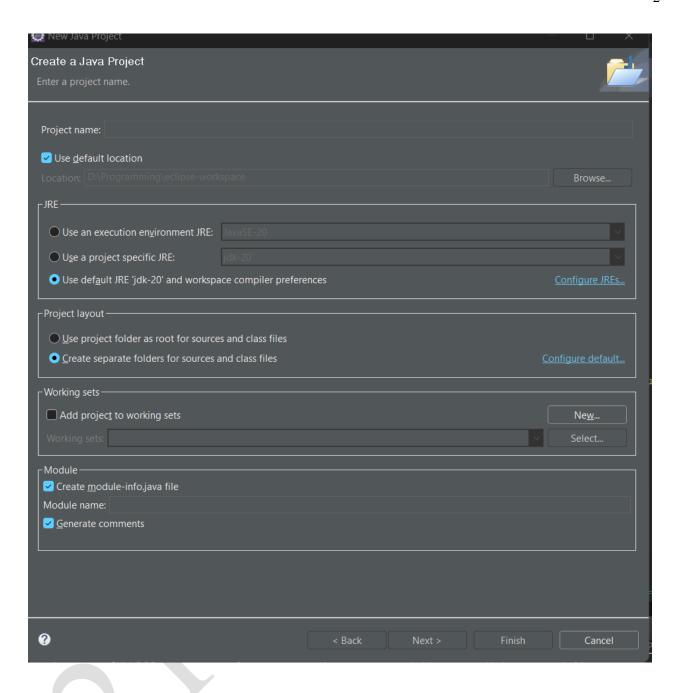
Implement Round Robin task scheduling in both Timeshared and Space Shared CPU assignments.

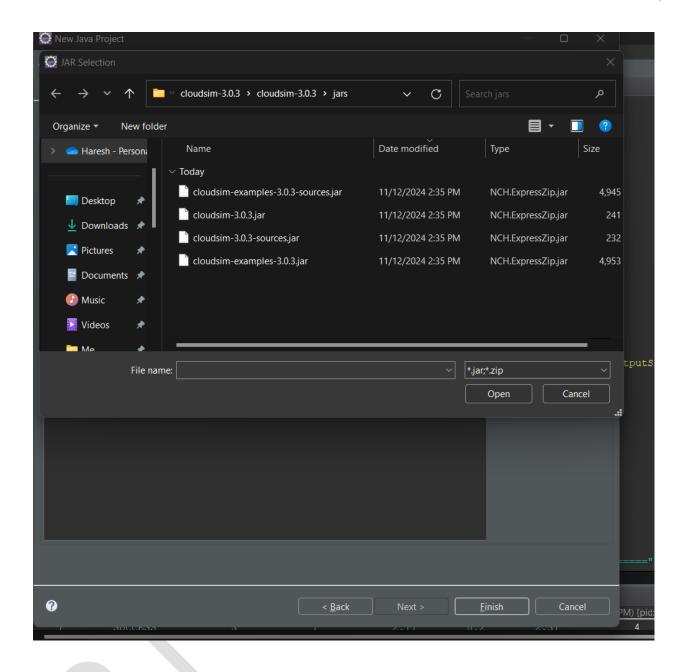
PROCEDURE:

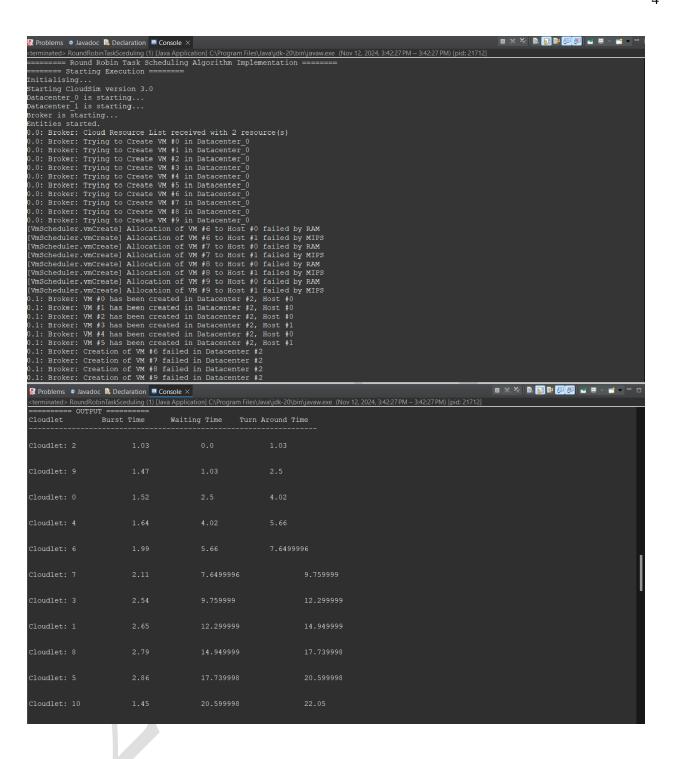
- 1. Create a new project by selecting java console line application template and JDK 18.
- 2. Open project settings from the file menu of the options window.
- 3. Navigate to project dependencies and select on add external jars and then click on
- 'Browse' to open the path where you have unzipped the Cloud Sim Jars and click on apply.
- 4. Create a java file with the cloud Sim code to implement the round robin scheduling algorithm.
- 5. Run the application as a java file to see the output in the console below.

OUTPUT:

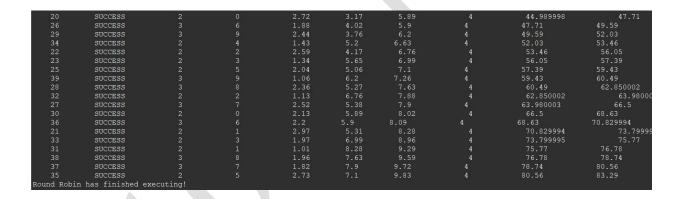
W







😭 Problems 💿 Javadoc 🐍 Declaration 💻 Console 🗴 <terminated> RoundRobinTasKSceduling (1) [Java Application] C\Program Files\Java\jdk-20\bin\javaw.exe (Nov 12, 2024, 3:42:27 PM – 3:42:27 PM) [pid: 21712]</terminated>									
Cloudlet: 35	i	2.73	0.56	83.29		, ,		···	
		Total: 40.25475 e on Total: 42.336							
verage rurn	Around Tim	le on Total: 42.330	998						
loudlet ID	STATUS	Data center ID	VM ID	Time S	tart Time	Finish Time	User ID	Waiting Time	Turn Around Tim
2	SUCCESS	2	2	1.03	0.2	1.23	4	ő.o	1.03
	SUCCESS			1.47	0.2	1.67	4	1.03	2.5
	SUCCESS			1.52	0.2	1.72		2.5	4.02
4	SUCCESS	2	4	1.64	0.2	1.84	4	4.02	5.66
	SUCCESS			1.99	0.2	2.19	4	5.66	7.6499996
	SUCCESS			2.11	0.2	2.31	4	7.6499996	9.759999
	SUCCESS			2.54	0.2	2.74	4	9.759999	12.299999
	SUCCESS	2		2.65	0.2	2.85	4	12.299999	14.94999
	SUCCESS			2.79	0.2	2.99	4	14.949999	17.73999
	SUCCESS	2		2.86	0.2	3.06	4	17.739998	20.5999
10	SUCCESS	2		1.45	1.72	3.17	4	20.599998	22.05
14	SUCCESS	2	4	1.69	1.84	3.53	4	22.05	23.74
19	SUCCESS	3		2.09	1.67	3.76	4	23.74	25.83
16	SUCCESS	3	6	1.83	2.19	4.02	4	25.83	27.66
12	SUCCESS	2	2	2.94	1.23	4.17	4	27.66	30.6
15	SUCCESS	2	5	2	3.06	5.06	4	30.6	32.6
24	SUCCESS	2	4	1.67	3.53	5.2	4	32.6	34.269997
18	SUCCESS	3		2.29	2.99	5.27	4	34.269997	36.559
11	SUCCESS	2		2.45	2.85	5.31	4	36.559998	39.01
17	SUCCESS			3.07	2.31	5.38	4	39.01	42.079998
13	SUCCESS	2	3	2.91	2.74	5.65	4	42.079998	44.98
20	SUCCESS			2.72	3.17	5.89	4	44.989998	47.71
26	SUCCESS			1.88	4.02	5.9		47.71	49.59
29	SUCCESS			2.44	3.76	6.2	4	49.59	52.03
34	SUCCESS		4	1.43	5.2	6.63	4	52.03	53.46
22	SUCCESS	2	2	2.59	4.17	6.76	4	53.46	56.05
23	SUCCESS			1.34	5.65	6.99	4	56.05	57.39
25	SUCCESS	2		2.04	5.06	7.1	4	57.39	59.43
39	SUCCESS			1.06	6.2	7.26	4	59.43	60.49
28	SUCCESS	3		2.36	5.27	7.63	4	60.49	62.850002
32	SUCCESS	2		1.13	6.76	7.88	4	62.850002	63.980



RESULT:

Round Robin task scheduling in both Timeshared and Space Shared CPU assignments has been successfully implemented.