Exp No: 8 Date: 25/09/2024

CLOUD SIMULATION

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

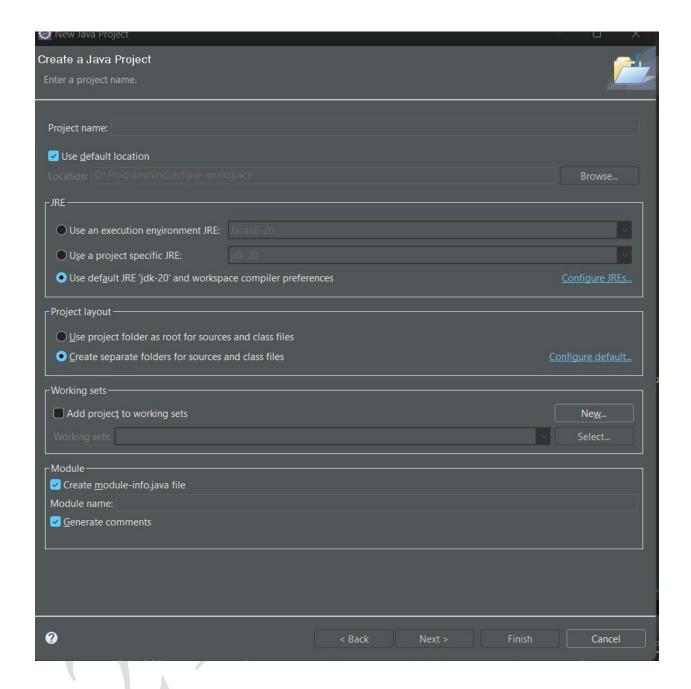
AIM:

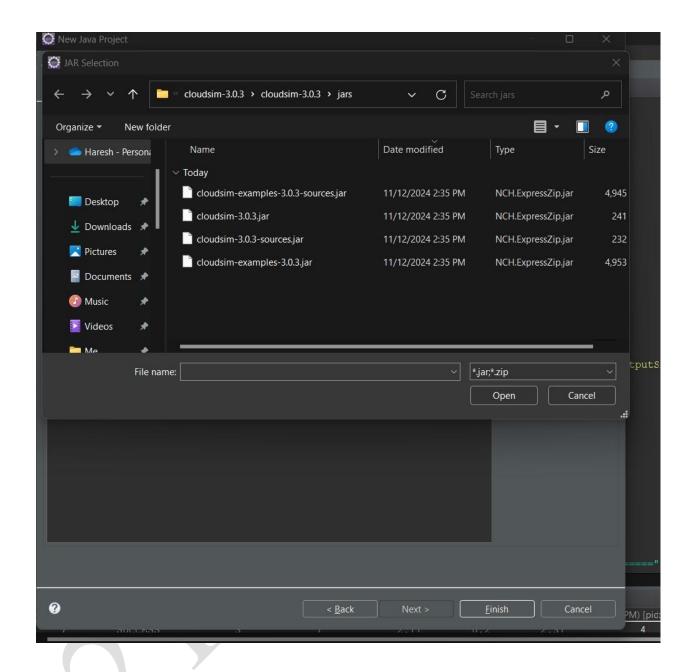
Implement Round Robin task scheduling in both Timeshared and Space Shared CPU assignments.

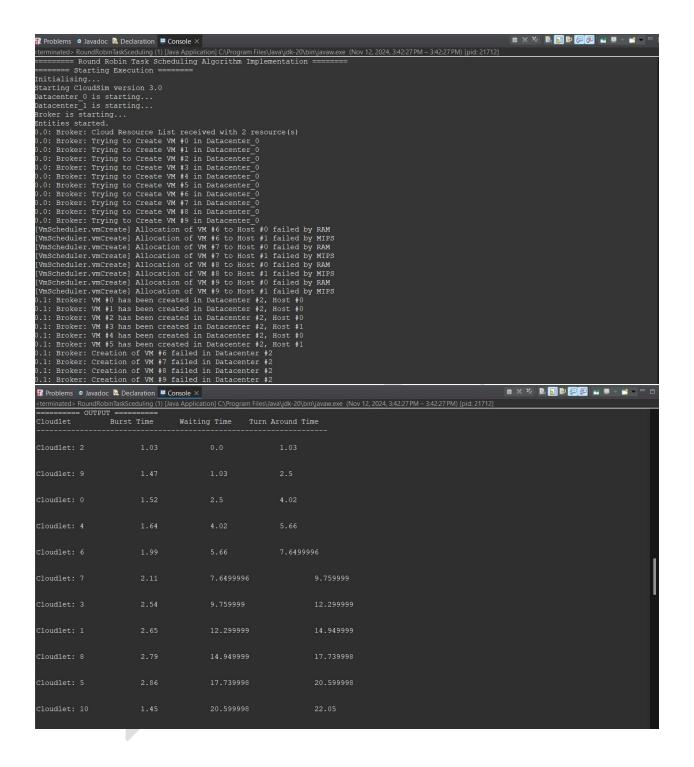
PROCEDURE:

- 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:







		aration	1 CAProgram File	ash lawahidk-20hainhia	waw eye (Nov 1) 2024 3-42-27 DM 2-	42:27 DM) [nid: 2	□ × ¾ 🖹 🛣 🕏	
udlet: 35			0.56	83.29	ivaw.exe (INOV 12	., 2024, 5.42.27 PIVI - 5.	42.27 PWI) [pId. 2	1712]	
rage Wait	ing Time on	Total: 40.25475 e on Total: 42.336		03.23					
udlet ID	STATUS	Data center ID	VM ID	Time S	tart Time	Finish Time	User ID	Waiting Time	Turn Around Ti
	SUCCESS			1.03		1.23			1.03
	SUCCESS			1.47		1.67			
	SUCCESS			1.52	0.2	1.72	4	2.5	4.02
	SUCCESS	2		1.64	0.2	1.84	4	4.02	5.66
6	SUCCESS			1.99	0.2	2.19	4	5.66	7.6499996
	SUCCESS			2.11	0.2	2.31	4	7.6499996	9.7599
	SUCCESS	2		2.54	0.2	2.74	4	9.759999	12.2999
	SUCCESS			2.65	0.2	2.85	4	12.299999	14.949
8 5	SUCCESS	3 2	5	2.79	0.2	2.99	4	14.949999	17.739
10	SUCCESS	2		2.86 1.45	0.2 1.72	3.06 3.17	4	17.739998 20.599998	20.599 22.0
		2					4		
14	SUCCESS			1.69	1.84	3.53		22.05	23.74
19 16	SUCCESS	3	9	2.09	1.67	3.76 4.02	4	23.74 25.83	25.83 27.66
	SUCCESS		2	1.83	2.19		4		
12	SUCCESS			2.94	1.23	4.17		27.66	30.6
15 24	SUCCESS	2			3.06 3.53	5.06 5.2		30.6	32.6
	SUCCESS	2		1.67			4	32.6	34.269997
18	SUCCESS			2.29	2.99	5.27		34.269997	36.5
11 17	SUCCESS			2.45 3.07	2.85 2.31	5.31 5.38	4	36.559998 39.01	39.0 42.07999
13		2	3	2.91	2.31	5.65	4	42.079998	42.07999
	SUCCESS						4		
20 26	SUCCESS	2	0 6	2.72 1.88	3.17 4.02	5.89 5.9	4	44.989998 47.71	47.7 49.59
29	SUCCESS	3	9	2.44	3.76	6.2	4	49.59	52.03
34	SUCCESS	2	4	1.43	5.2	6.63	4	49.59 52.03	53.46
22	SUCCESS	2	2	2.59	4.17	6.76	4	53.46	56.05
23	SUCCESS		3	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	7	59.43	60.49
28	SUCCESS	3		2.36	5.27	7.63	4	60.49	62.85000
32	SUCCESS			1.13	6.76	7.88	4	62.850002	63.9
20	SUCCESS	2	0	2.72	3.17	5.89	4	44.989998	47.7
26	SUCCESS	3	6	1.88	4.02	5.9	4	47.71	49.59
29	SUCCESS		9	2.44	3.76	6.2	4	49.59	52.03
34	SUCCESS	2	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	2	3	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	3		1.06	6.2	7.26	4	59.43	60.49
28	SUCCESS			2.36	5.27	7.63	4	60.49	62.85000
32	SUCCESS	2	2	1.13	6.76	7.88	4	62.850002	63.9
27	SUCCESS			2.52	5.38	7.9	4	63.980003	66.5
30	SUCCESS	2	ó	2.13	5.89	8.02	4	66.5	68.63
36	SUCCESS	3	6	2.13	5.9	8.09	4	68.63	70.829994
21	SUCCESS	2		2.97	5.31	8.28	4	70.829994	70.623334
33	SUCCESS			1.97	6.99	8.96	4	73.799995	75.7
31	SUCCESS	2		1.01	8.28	9.29	4	75.77	76.78
38	SUCCESS			1.96	7.63	9.59	4	76.78	78.74
37	SUCCESS	3		1.82	7.9	9.72	4	78.74	80.56

RESULT:

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