Exp No: 8 Date: 25/09/2024

CLOUD SIMULATION

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

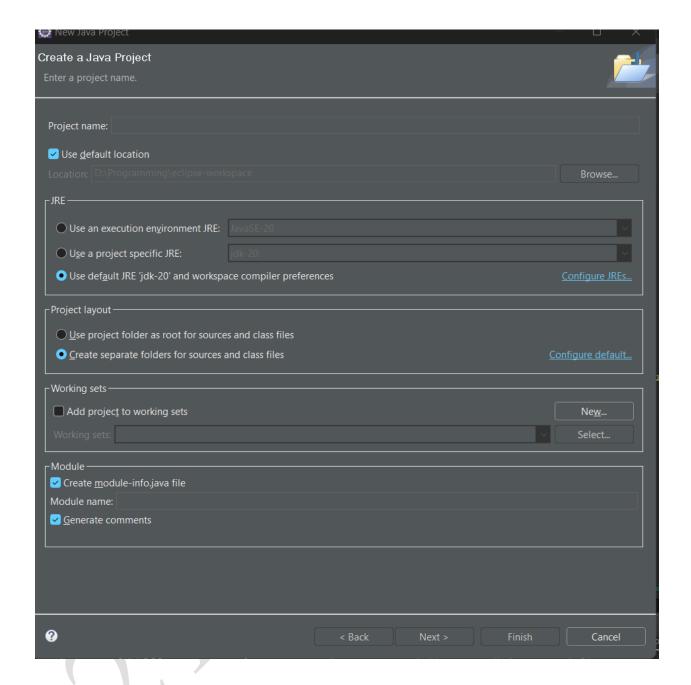
AIM:

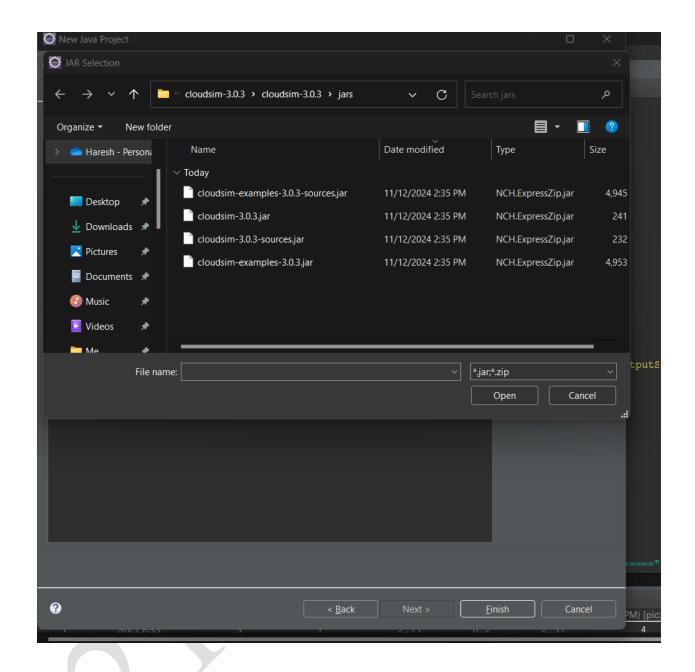
Implement Round Robin task scheduling in both Timeshared and Space Shared CPU assignments.

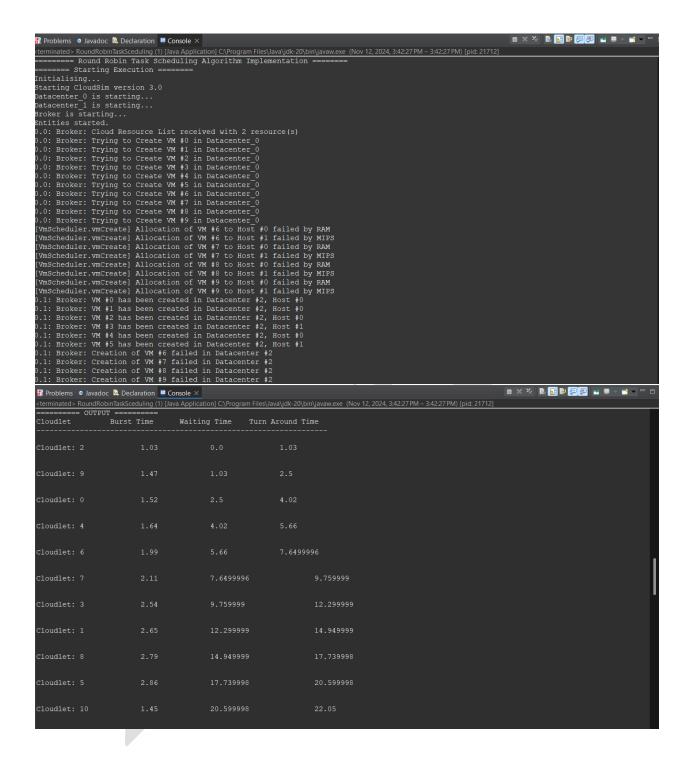
PROCEDURE:

- 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	al C\Drogram Fil	os) lava) idk 20) bin) iau	zaw aya (Nay 13	2024 2:42:27 DM 2:	42:27 BM) (pid: 21	□ X X B 3 0			
					raw.exe (INOV 12	, 2024, 3.42.27 FIVI - 3.	42.27 FIVI) [plu. 21	7 12]			
Cloudlet: 35		2.73 { Total: 40.25475	30.56	83.29							
			000								
Average Turn Around Time on Total: 42.336998											
Cloudlet ID	STATUS	Data center ID	VM ID	Time St	art Time	Finish Time	User ID	Waiting Time	Turn Around Time		
2	SUCCESS			1.03		1.23					
9	SUCCESS			1.47		1.67		1.03			
0	SUCCESS			1.52		1.72			4.02		
4	SUCCESS			1.64	0.2	1.84		4.02	5.66		
6	SUCCESS			1.99	0.2	2.19		5.66	7.6499996		
7	SUCCESS			2.11		2.31		7.6499996	9.759999		
3	SUCCESS			2.54	0.2	2.74		9.759999	12.299999		
1	SUCCESS			2.65	0.2	2.85		12.299999	14.949999		
8	SUCCESS			2.79		2.99		14.949999	17.739998		
5	SUCCESS			2.86		3.06		17.739998	20.599998		
10	SUCCESS			1.45	1.72	3.17		20.599998	22.05		
14	SUCCESS			1.69	1.84	3.53		22.05	23.74		
19	SUCCESS			2.09	1.67	3.76		23.74	25.83		
16	SUCCESS			1.83	2.19	4.02		25.83	27.66		
12	SUCCESS			2.94	1.23	4.17		27.66	30.6		
15	SUCCESS				3.06	5.06	4	30.6	32.6		
24	SUCCESS			1.67	3.53	5.2		32.6	34.269997		
18	SUCCESS			2.29	2.99	5.27		34.269997	36.55999		
11	SUCCESS			2.45	2.85	5.31		36.559998	39.01		
17	SUCCESS			3.07	2.31	5.38		39.01	42.079998		
13	SUCCESS			2.91	2.74	5.65		42.079998	44.98999		
20	SUCCESS			2.72	3.17	5.89	4	44.989998	47.71		
26	SUCCESS			1.88	4.02			47.71	49.59		
29	SUCCESS			2.44	3.76	6.2		49.59	52.03		
34	SUCCESS			1.43	5.2	6.63		52.03	53.46		
22	SUCCESS			2.59	4.17	6.76		53.46	56.05		
23	SUCCESS			1.34	5.65	6.99		56.05	57.39		
25	SUCCESS			2.04	5.06	7.1		57.39	59.43		
39	SUCCESS			1.06	6.2	7.26		59.43	60.49		
28	SUCCESS			2.36	5.27	7.63		60.49	62.850002		
32	SUCCESS			1.13	6.76	7.88		62.850002	63.98000		

20	SUCCESS			2.72	3.17	5.89		44.989998	47.71		
26	SUCCESS				4.02			47.71	49.59		
29	SUCCESS			2.44				49.59	52.03		
34	SUCCESS			1.43		6.63		52.03	53.46		
22	SUCCESS				4.17	6.76		53.46	56.05		
23	SUCCESS			1.34	5.65	6.99		56.05	57.39		
25	SUCCESS			2.04	5.06			57.39	59.43		
39	SUCCESS			1.06		7.26		59.43	60.49		
28	SUCCESS			2.36	5.27	7.63		60.49	62.850002		
32	SUCCESS			1.13				62.850002	63.98000		
27	SUCCESS							63.980003	66.5		
30) SUCCESS			2.13	5.89			66.5	68.63		
36	SUCCESS							68.63	70.829994		
21	SUCCESS			2.97				70.829994	73.79999		
33	SUCCESS			1.97	6.99	8.96		73.799995	75.77		
31	SUCCESS				8.28	9.29		75.77	76.78		
38	SUCCESS			1.96	7.63	9.59		76.78	78.74		
37				1.82		9.72		78.74	80.56		
35	SUCCESS			2.73		9.83		80.56	83.29		
Round	Round Robin has finished executing!										

RESULT:

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