Exp No: 8 Date: 25/09/2024

## **CLOUD SIMULATION**

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

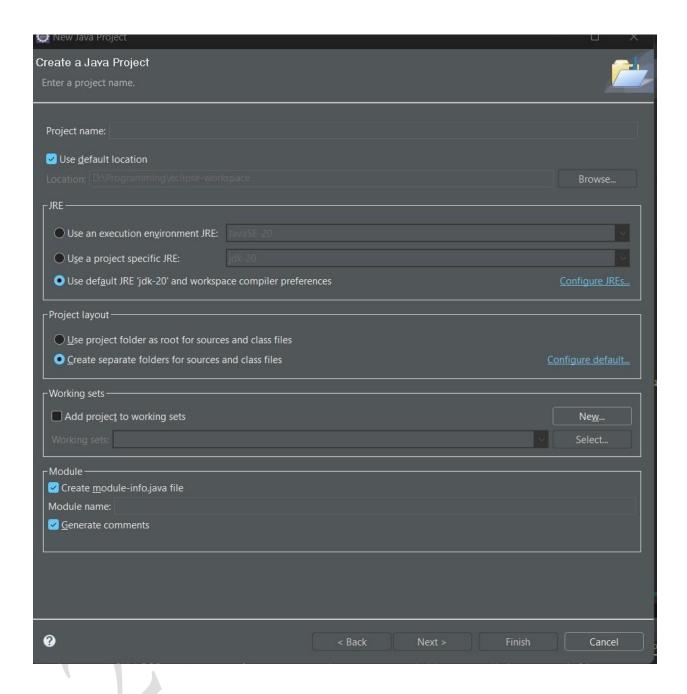
#### AIM:

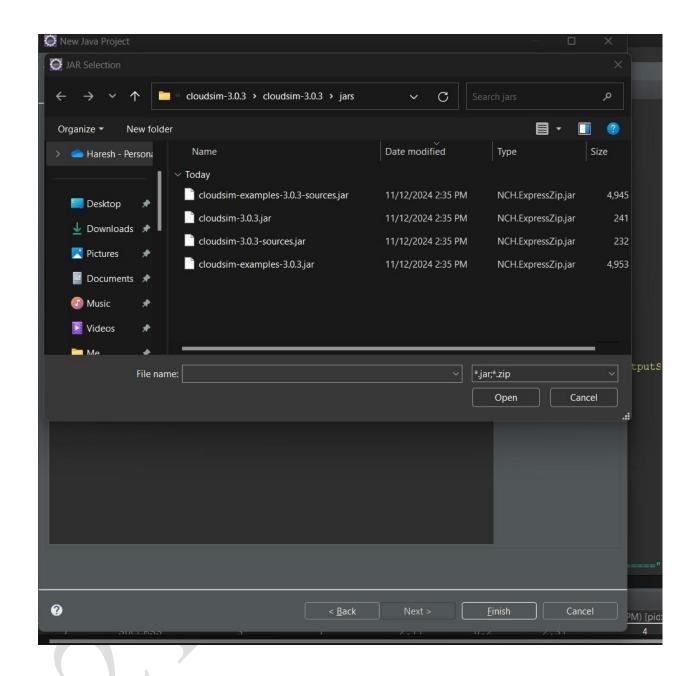
Implement Round Robin task scheduling in both Timeshared and Space Shared CPU assignments.

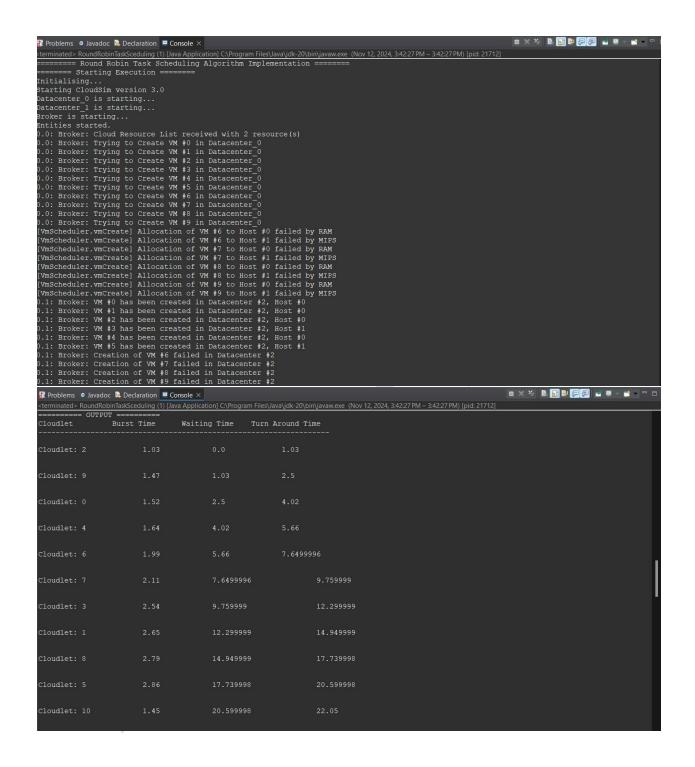
#### **PROCEDURE:**

- 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:**







🔐 Problems ဖ J	Javadoc 📮 Decla	aration Console ×							
<terminated> Rou</terminated>	und Robin Task Sceo	duling (1) [Java Application	n] C:\Program File	es\Java\jdk-20\bin\java\	v.exe (Nov 12	, 2024, 3:42:27 PM – 3:	42:27 PM) [pid: 21	712]	
	ing Time on	2.73 { Total: 40.25475 e on Total: 42.336	80.56	83.29					
				-:					
Cloudlet ID 2	STATUS SUCCESS	Data center ID 2	VM ID 2	Time Sta 1.03	rt Time 0.2	Finish Time 1.23	User ID 4	Waiting Time 0.0	Turn Around Time 1.03
	SUCCESS			1.47		1.67			
	SUCCESS			1.52	0.2	1.72		2.5	4.02
4 6	SUCCESS	2	4 6	1.64 1.99	0.2 0.2	1.84 2.19	4	4.02 5.66	5.66 7.6499996
	SUCCESS	3		2.11	0.2	2.31	4	7.6499996	9.759999
	SUCCESS			2.54	0.2	2.74		9.759999	12.299999
	SUCCESS			2.65		2.85		12.299999	14.949999
	SUCCESS			2.79		2.99		14.949999	17.739998
5 10	SUCCESS SUCCESS	2 2		2.86 1.45	0.2 1.72	3.06 3.17	4	17.739998 20.599998	20.599998 22.05
14	SUCCESS	2	4	1.69	1.84	3.53	4	22.05	23.74
19	SUCCESS				1.67	3.76		23.74	25.83
16	SUCCESS			1.83	2.19	4.02		25.83	27.66
12 15	SUCCESS			2.94	1.23	4.17 5.06	4	27.66 30.6	30.6 32.6
24	SUCCESS	2	4	2 1.67	3.53	5.06	4	30.6	34.269997
18	SUCCESS	3		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 20	SUCCESS SUCCESS	2 2		2.91 2.72	2.74 3.17	5.65 5.89	4	42.079998 44.989998	44.98999 47.71
26	SUCCESS	3	6	1.88	4.02	5.9	4	47.71	49.59
29	SUCCESS			2.44	3.76	6.2		49.59	52.03
34	SUCCESS			1.43		6.63		52.03	53.46
22	SUCCESS			2.59	4.17	6.76	4	53.46	56.05
23 25	SUCCESS	2 2		1.34 2.04	5.65 5.06	6.99 7.1	4	56.05 57.39	57.39 59.43
39	SUCCESS			1.06	6.2	7.26	4	59.43	60.49
28	SUCCESS			2.36	5.27	7.63		60.49	62.850002
32	SUCCESS	2	2	1.13	6.76	7.88	4	62.850002	63.98000
20	SUCCESS	2		2.72	3.17	5.89	4	44.989998	47.71 49.59
26 29	SUCCESS			1.88 2.44	4.02 3.76	5.9 6.2	4	47.71 49.59	49.59 52.03
34	SUCCESS			1.43	5.2	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 39	SUCCESS	2		2.04 1.06	5.06 6.2	7.1 7.26	4	57.39 59.43	59.43 60.49
28	SUCCESS	3	8	2.36	5.27	7.63	4	60.49	62.850002
32	SUCCESS			1.13	6.76	7.88		62.850002	63.9800
27	SUCCESS			2.52				63.980003	66.5
30	SUCCESS			2.13	5.89	8.02		66.5	68.63
36 21	SUCCESS			2.2 2.97	5.9 5.31	8.09 8.28	4	68.63 70.829994	70.829994 73.7999
33	SUCCESS	2	3	1.97	6.99	8.96	4	73.799995	75.77
31	SUCCESS				8.28	9.29		75.77	
38	SUCCESS			1.96	7.63	9.59		76.78	78.74
37 35	SUCCESS			1.82		9.72	4	78.74	80.56
33	SUCCESS	2 d executing!		2.73		9.83	4	80.56	83.29

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