Name: Preyash

Registration Number: 20BPS1022 Date: 03 March, 2022

LAB-05

CSE2021

DISTRIBUTED REAL-TIME SYSTEMS

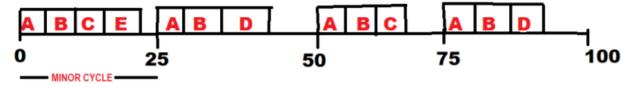
Tools Used: Ptolemy

Task: Creating cyclic scheduling using Finite State Machine (FSM).

Question:

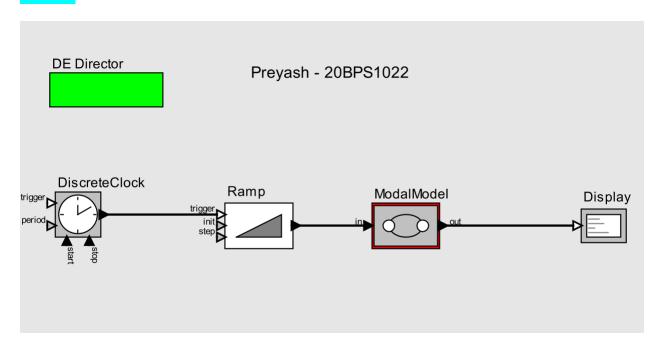
	lock-driven (time-driven) cheduling algorithm	Process	Period	Comp. Time
◆ C	Off-line algorithm	Α	25	10
	Minor Cycle (e.g. 25ms) - gcd of all eriods	В	25	8
	Major Cycle (e.g. 100ms) - lcm f all periods	С	50	5
	struction of a cyclic executive is	D	50	4
e	quivalent to <u>bin packing</u>	E	100	2

Schedule:

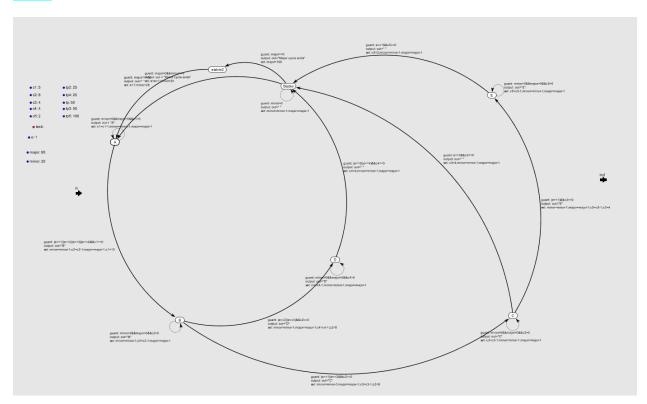


MAJOR CYCLE

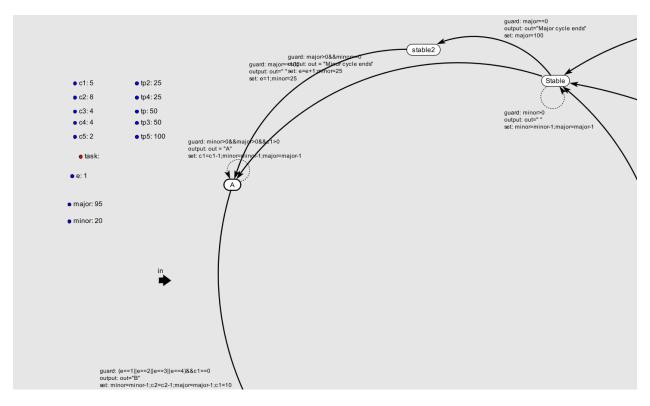
Circuit:

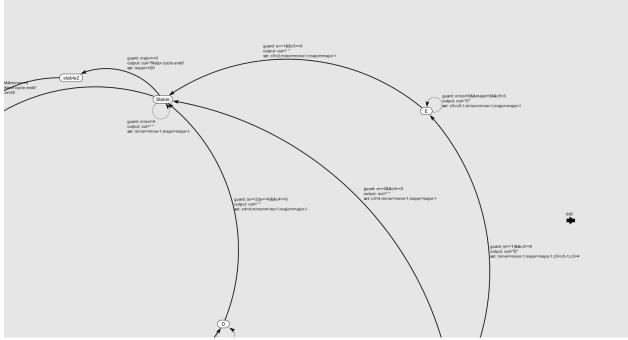


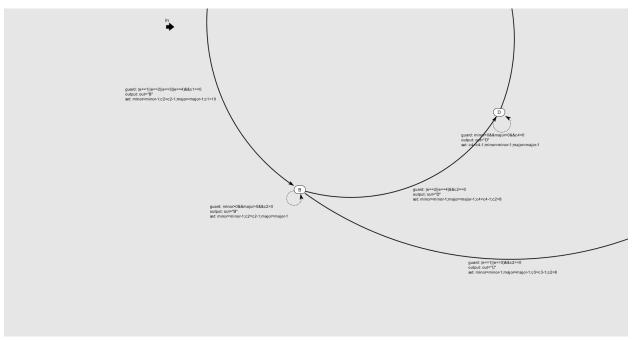
FSM:

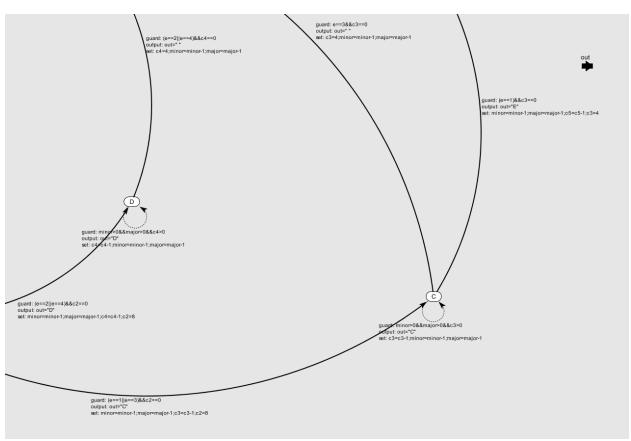


Closer view:









Output:

A A A A A A B В B B В В В C C C E E

Minor cycle ends

A B B B B B B B D D D D

Minor cycle ends

```
Minor cycle ends
A
A
A
A
A
B
B
В
В
В
В
D
D
D
Major cycle ends
Note: The Program will keep on running for every major cycle in similar way.
```