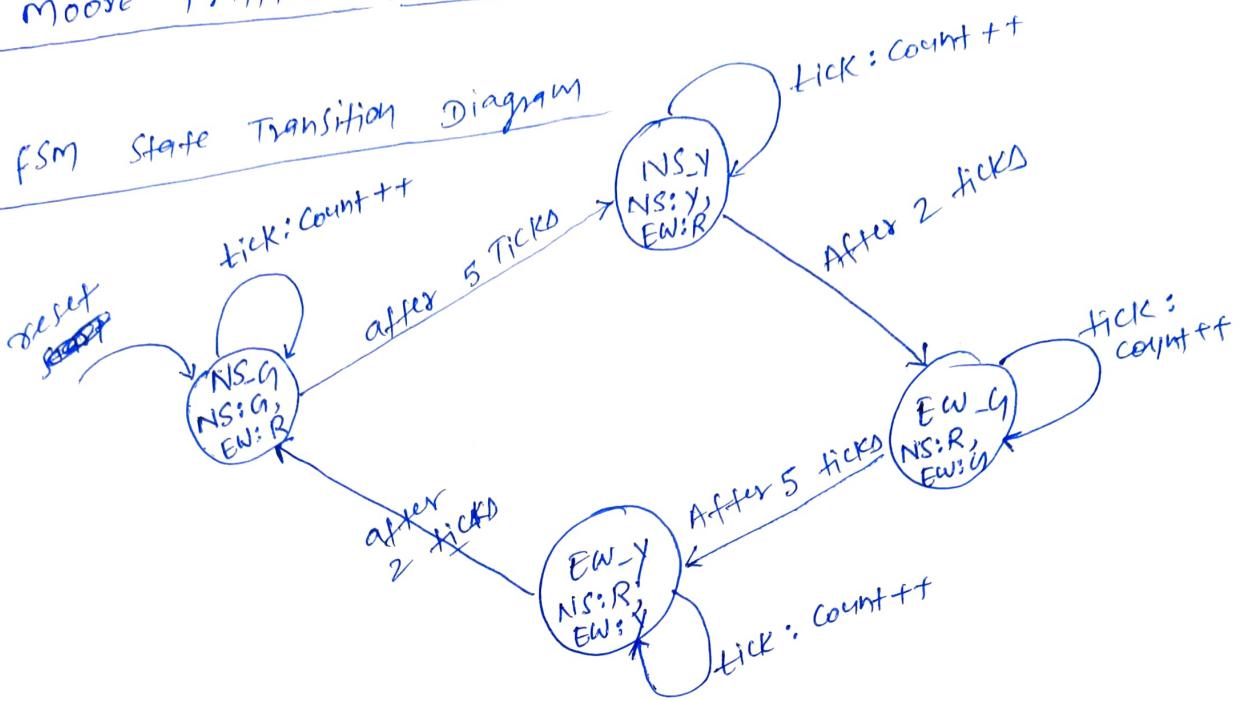


problem 2 - traffic

Moose traffic light controller [Tick-driven]

FSM State Transition Diagram



FSM State Transition Table

Current-State

NS-9

NS-Y

EW-9

Ew - γ

input (TICK)

kick [aɪk] (affr⁵)

lick [After 2]

stick (After 5)

kick [After 2]

NS-^y

E W - 9

E W-Y

NS-9

NS-9

Encoding (2-bitf)

State

NS-9

N S-Y

EW-9

Ew-7

Encoding

00

01

10

1

FSM Output Table

Current States

NS-G

NS-G

Outputs

~~NS-X~~ NS-Y NS-R

EW-G EW-Y EW-R

NS-Y

0

0

0

0 1

0

0

0 1

EW-G

0

1

1

0 0

EW-Y

0

0

1

1 0