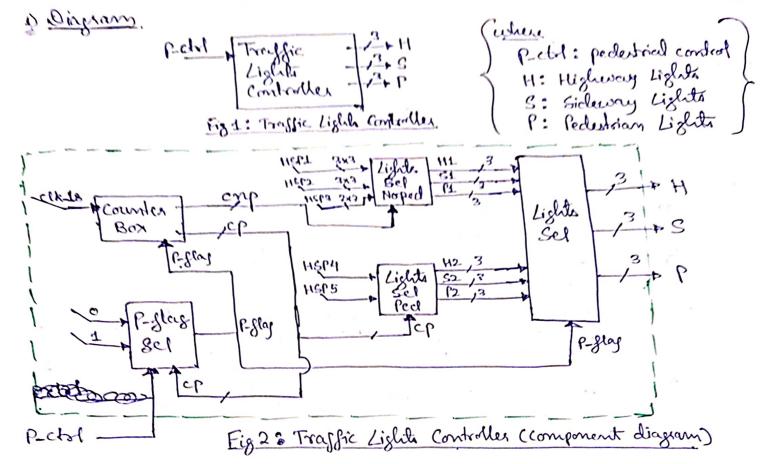
## Assignment Traffic Xighila Controller

## Housh Kumas Livouslava



- 2) Components
  - (.) counter Box: Increases counters 'enp' and 'cp' at rising clock event based on the Value of p-flag'
  - ( ) p-flag sel: sets p-flag to o' or i' boused on 'petrl' and cp
  - (e) Lights Sel Noped: Belecto between estates HSP1, HSP2 and HSP3 (State for lights when no pedestricth) depending upon value of 'cnp' country
  - (0) Lights Sel Ped: Selecti between adoites HSP4 JHSP5 (State for lights when pedeation wants to cross) depending upon the value of 'cp' counter
  - (6) Light Sel: Selects Between the ordered of components Light-Sel-ped' and component Light-Sel-ped' depending upon the value of p-flag'

3) Encoding used for Light signals 
"001"— Red

"010"— Yellow

"100"— Cyreen

List of Light Signals

H, S, P

H1, S1, P1

H2, S2, P2

4) Working

(4) Tuitially - Highway light is green Siderary light is gred pedestoial light is gred.

(a) when no pedestrian wants to cross —

(b) Highway light is green and sideway light is red

for 10 min.

(ii) Then both highway & sidway lights are yellow for

Then, highway light is red and side way light is green for 1 min (" 2017UEE0071 - sentry no. ends with 1'

(iV) Then, both highway of sideway lights are yellow for 10 sec.

(V) Repeat

(Note: Pedestrian lights are red in this case.)

(6) When pedestrian who wants to cross, he/she press a button selling patol' to 1' and then -

is Highway, sideway and redestrian lights are yellow for 10 sec

colile pedestrian light is green for 1 min.

(iii) Then, again all lights are yellow for 10 sec. after which the lights control goes back to no pedestrians crossing state (resumes from where it left)

(Note: Multiple buttern press by pedestrian crossing process) are handled by the controller and counted as one press only so, if the pedestrians gets impatient and hit the butters multiple times like in an elevator, No Problem machine handles if!