

26 Jun 2023

input same but different op
~~so~~ so use it.

STATE TRANSITION :

Four factors

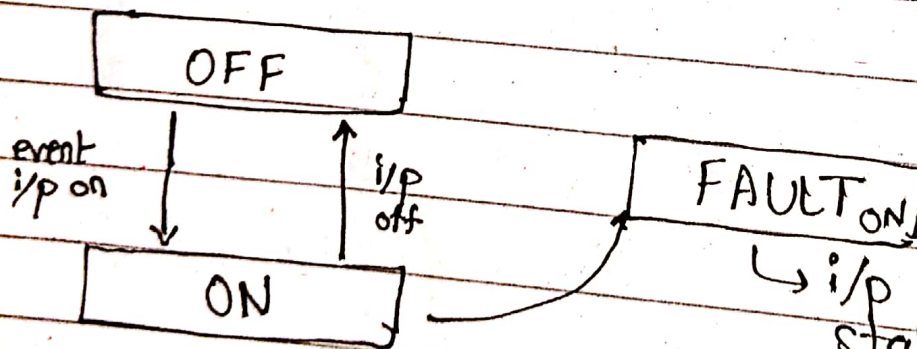
- 1 State
- 2 Event / Past action → set i/p
- 3 Transition
- 4 Action / output

State transition dig + table

left → state

top → events

in hardware devices use.



→ i/p same but
state change nhi
ho rhi b/c fault
on hai toh on hi
so use state transition

for finite states . certain behavior defined
hoga . For state transition

if OFF FAULT Here add more column

OFF
FAULT

Events

States	Input ON	Input OFF	Input of
Start OFF	OFF	ON	ON
End ON	ON	OFF	ON FAULT

	'0x'		
OFF S ₁	S ₁	S ₂	S ₂
ON S ₂	S ₂	S ₁	S ₃
FAULT S ₃			

Test cases

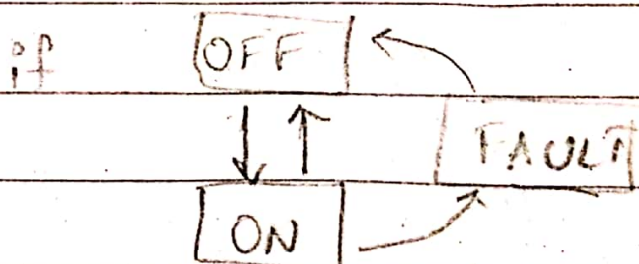
1 OFF ko prioritize start/End

S₁ — S₂ — S₁

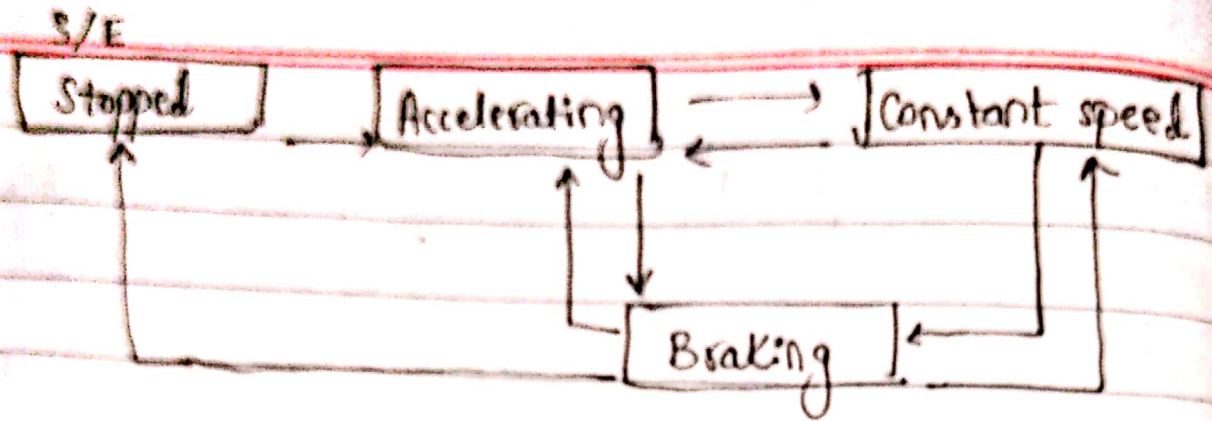
2 FAULT prioritize

S₁ — S₂ — S₃

S₁ — S₂ — S₃ — S₁



Brake → common state. stop par one Kai lia step
brake lazmi



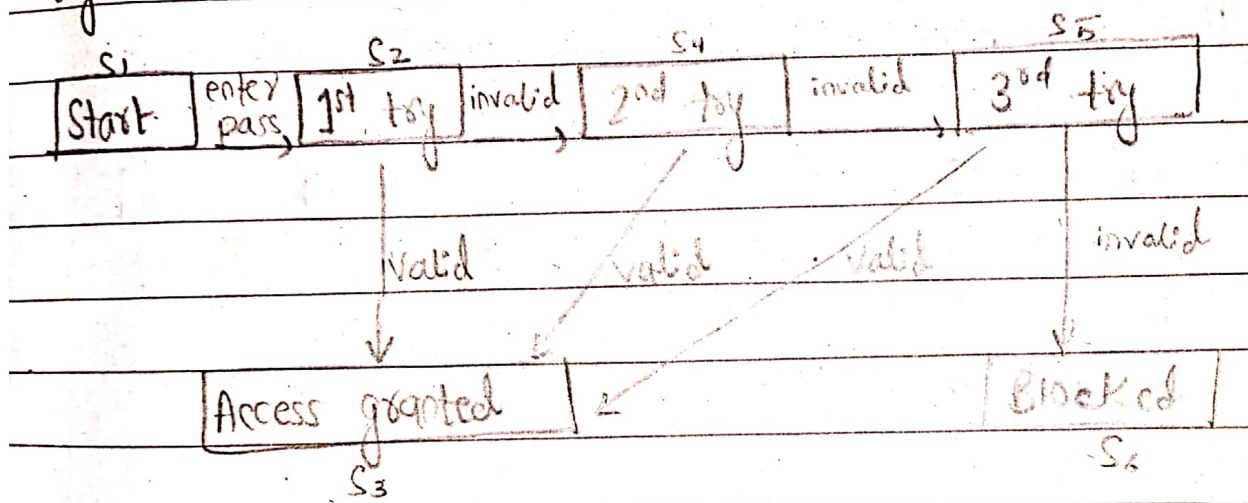
Trigger Events list down (Jin states par traverse for time in end. Also start state)

S	A	1✓	① S → A → CS → B → S
A	CS	1✓	② S → A → B → A → B → S
A	B	2✓	③ S → A → C → A → C → B → S
CS	A	3✓	
CS	B	1✓	
B	A	2✓	
B	CS	3✓	
B	S	1✓	

constant speed positive
so start me with C
lazmi not B

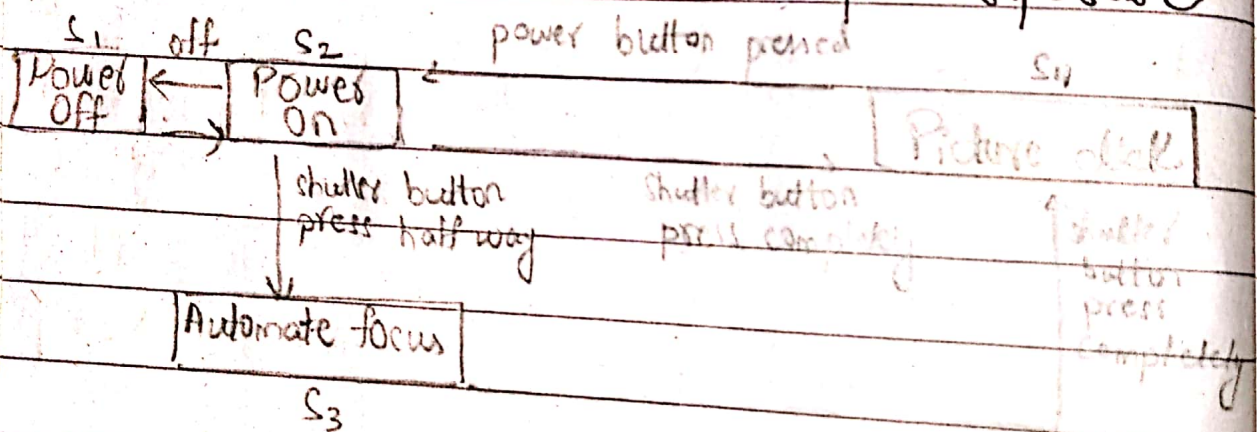
3 July 2023

Q) Lets consider ATM system function where user enters invalid password 3 times, the account will be locked. In this system if the user enters a valid password in any of the 3 attempts user will be logged successfully. If the user enters invalid password in the 1st and 2nd try the user will be asked to re-enter password



States	Valid	Invalid
S ₁	S ₂	S ₂
S ₂	S ₃	S ₄
S ₃	S ₃	
S ₄	S ₃	S ₅
S ₅	S ₃	S ₆
S ₆		S ₆

Q2) You are going to be testing a small camera. To keep it simple there are 2 button power and shutter. The camera will act as an automate focus & exposure, when shutter button pressed half way & then stopped for 0.4 sec before button press completed. If the shutter button pressed all the way without stopping the camera will act as simple exposure.



States	Valid	Invalid
S ₁	S ₂	S ₁
S ₂		
S ₃		
S ₄		

choice from table of CEC

Q3) There is a chemical tracking system for diff chemicals. like hazardous and non-hazardous that allows and reject issuance of chemicals based on requests is authorized and has trained user who can handle hazardous chemical or request itself is trained in handling hazardous chemicals and availability of chemical is also necessary in stock room or from vendor.