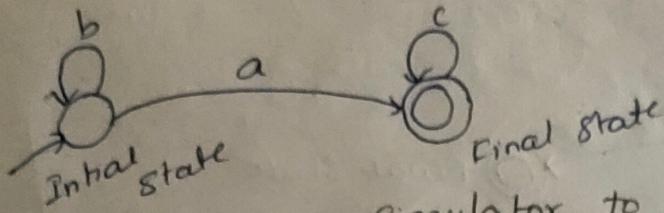
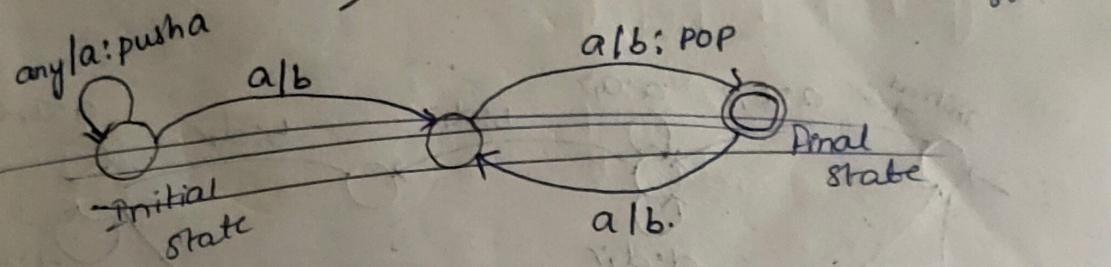


- (12) Design DFA using simulator to accept input string "a", "ac" and "bac".



Input  
b | a | c | | |

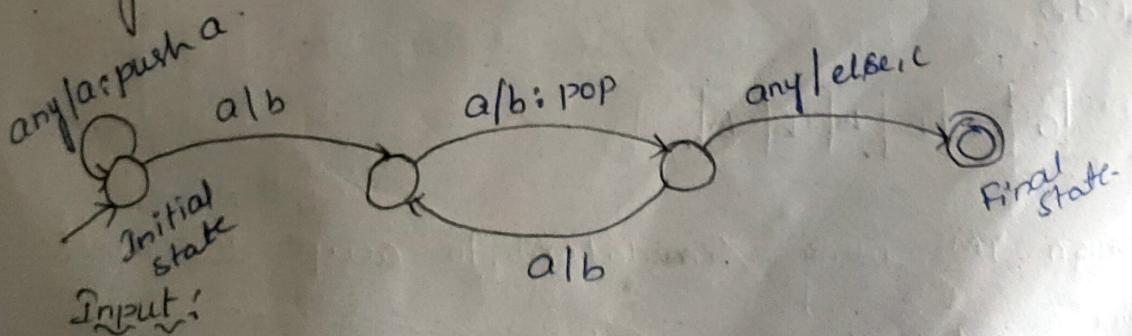
- (13) Design PDA using simulator to accept tree input string aabb.



Input

a | a | b | b | |

- (14) Design PDA using simulator to accept tree input string  $a^n b^n$ .

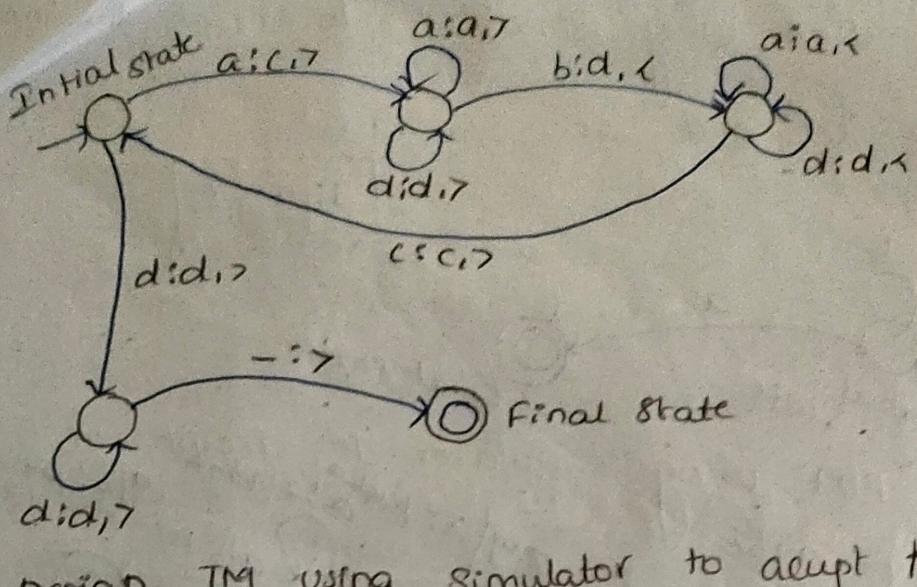


Input:

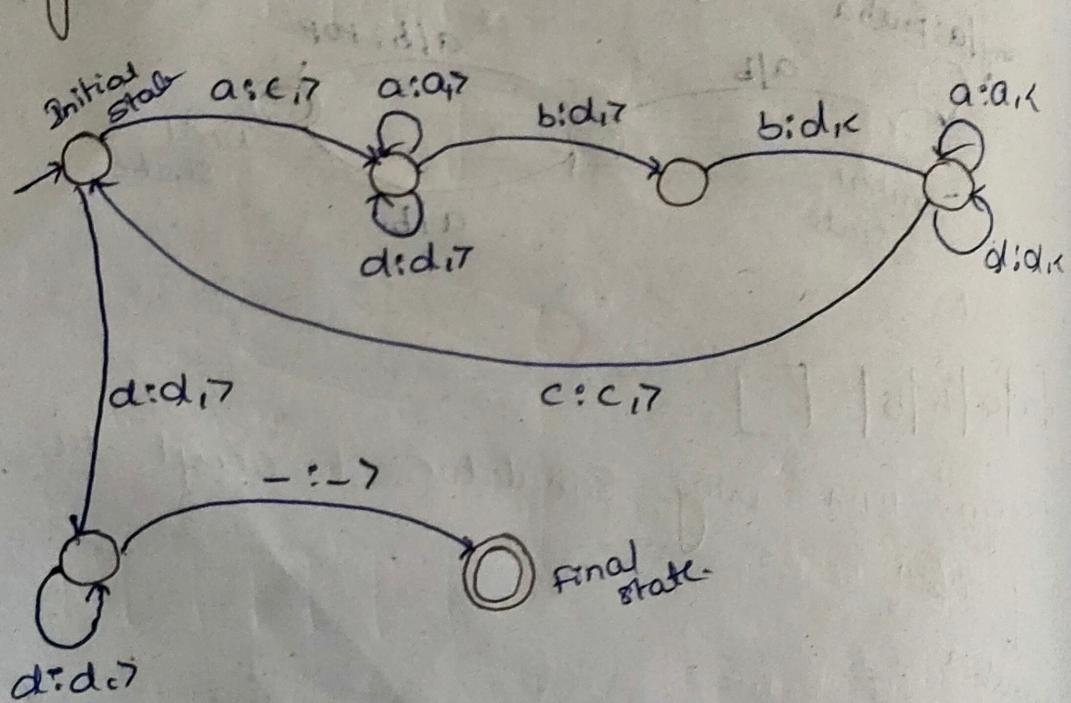
a | a | b | b | b | |

- (15) Design TM using simulator to approach tree input string  $a^n b^n$ .

a | a | b | b | |



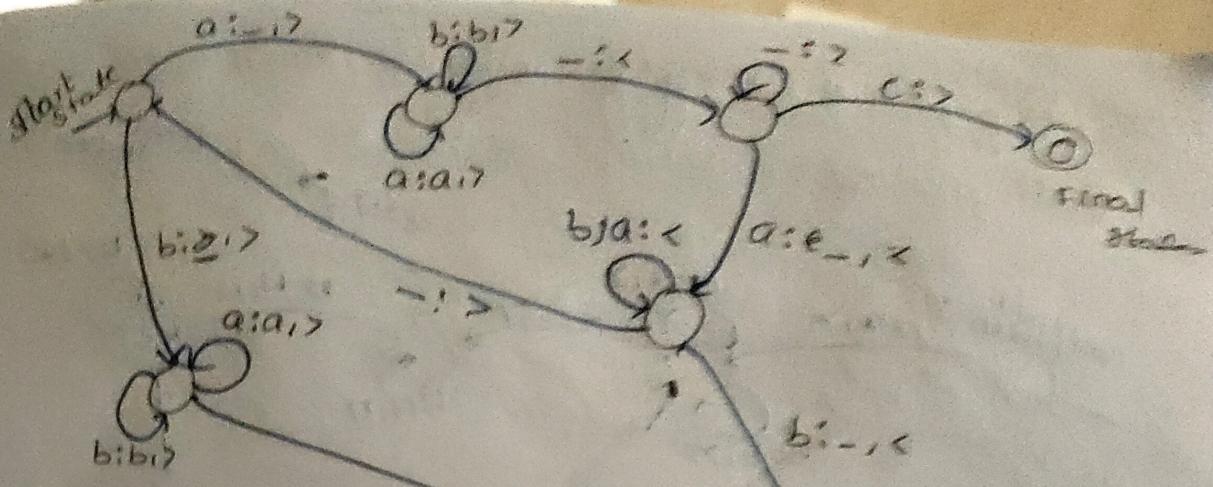
- ⑯ Design TM using simulator to accept the input string  $a^n b^n$ .



a	a	b	b	b	b
---	---	---	---	---	---

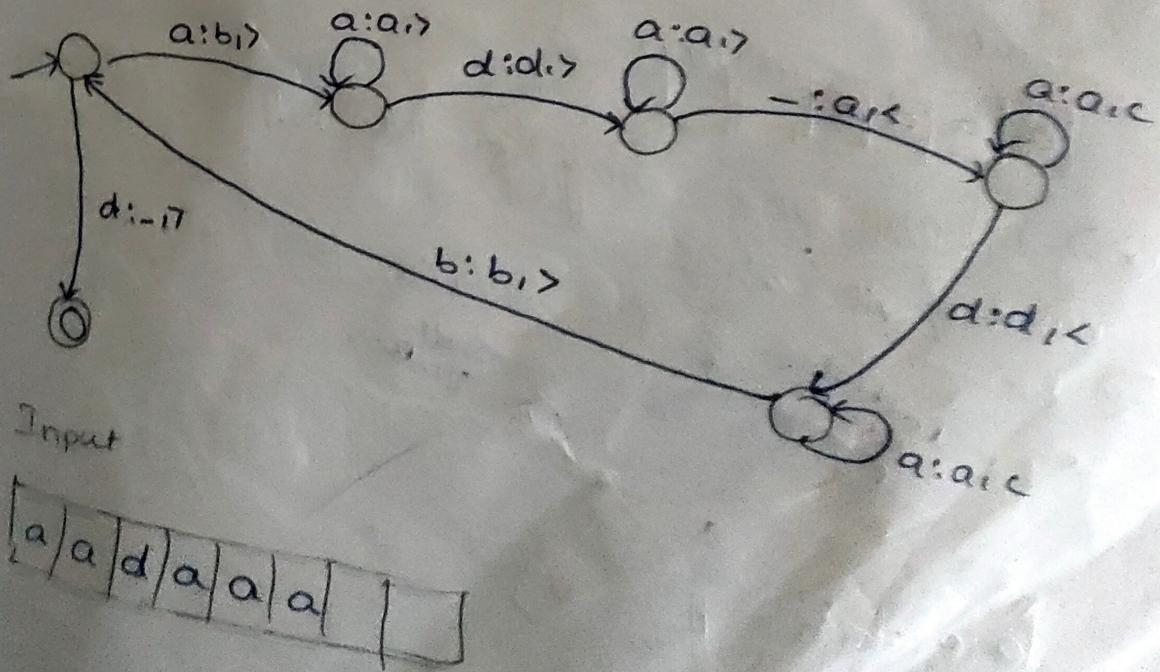
- ⑰ Design TM using simulator to accept the input string @n Palindrom ababa

a	b	a	b	a	b	c
---	---	---	---	---	---	---

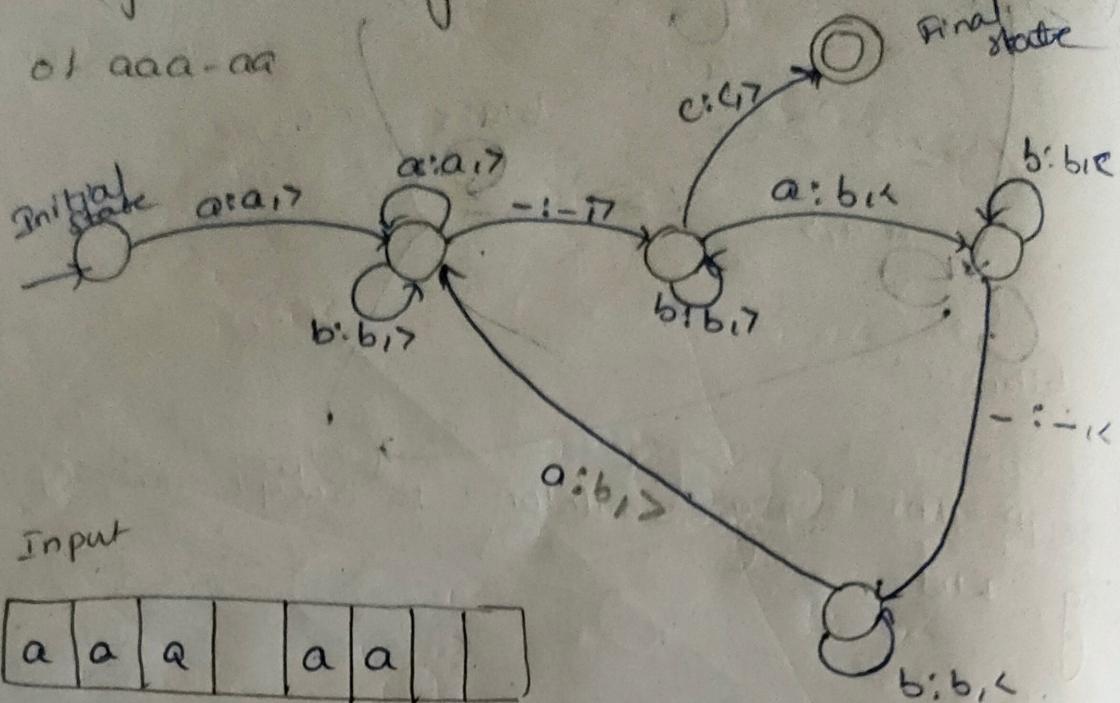


- ⑯ Design TM using simulator to accept the input string  $w_1 w_2$ .

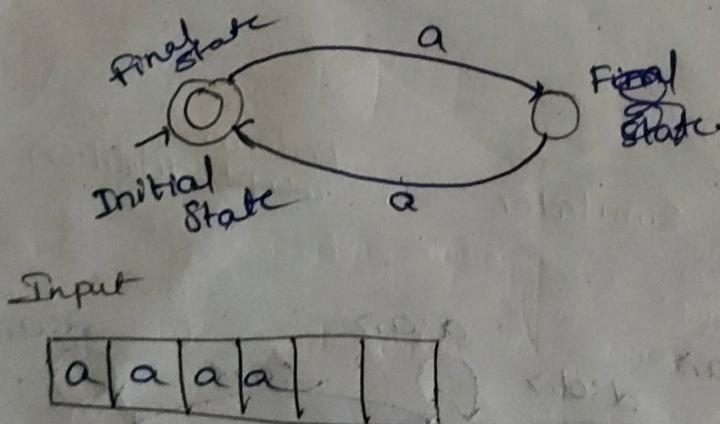
- ⑰ Design TM using simulator to perform addition of 'aa' and 'aa'.



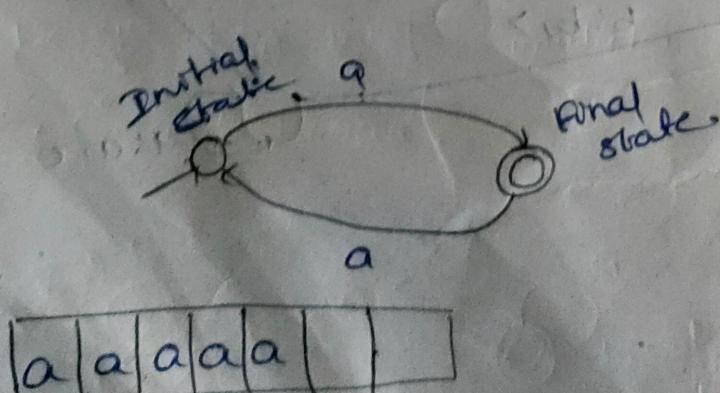
① Design TM using simulator to perform substitution of  $a \rightarrow a$



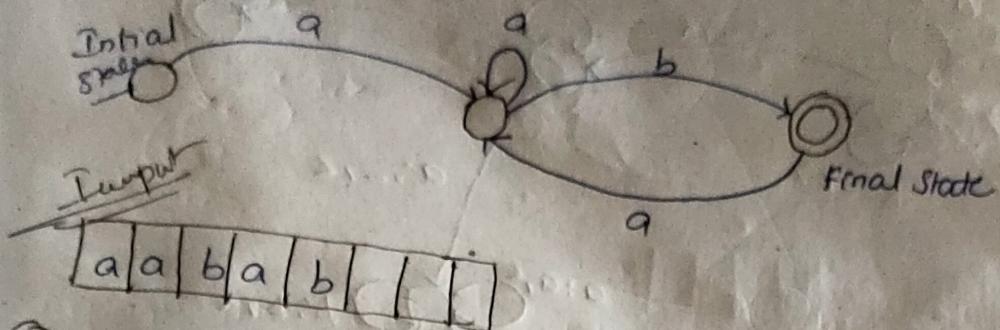
② Design DFA using simulator to accept odd even number of  $a$ 's.



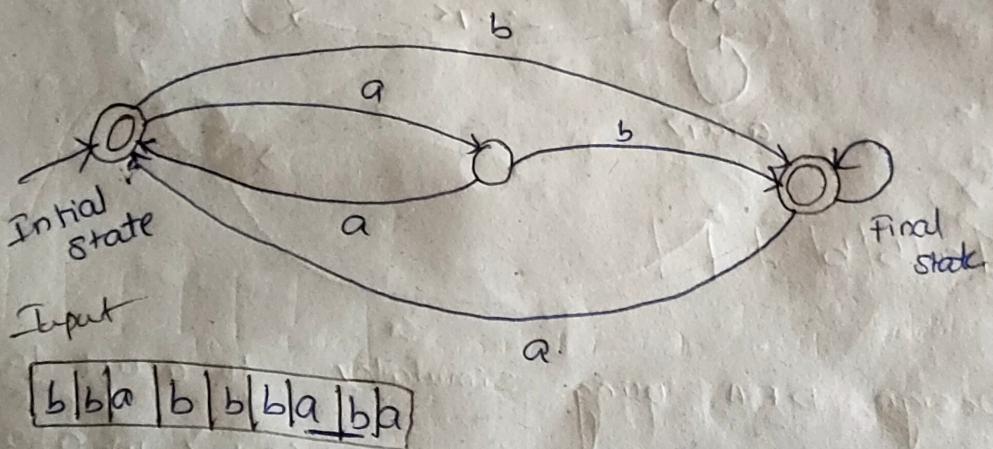
③ Design DFA using simulator to accept odd number of  $a$ 's.



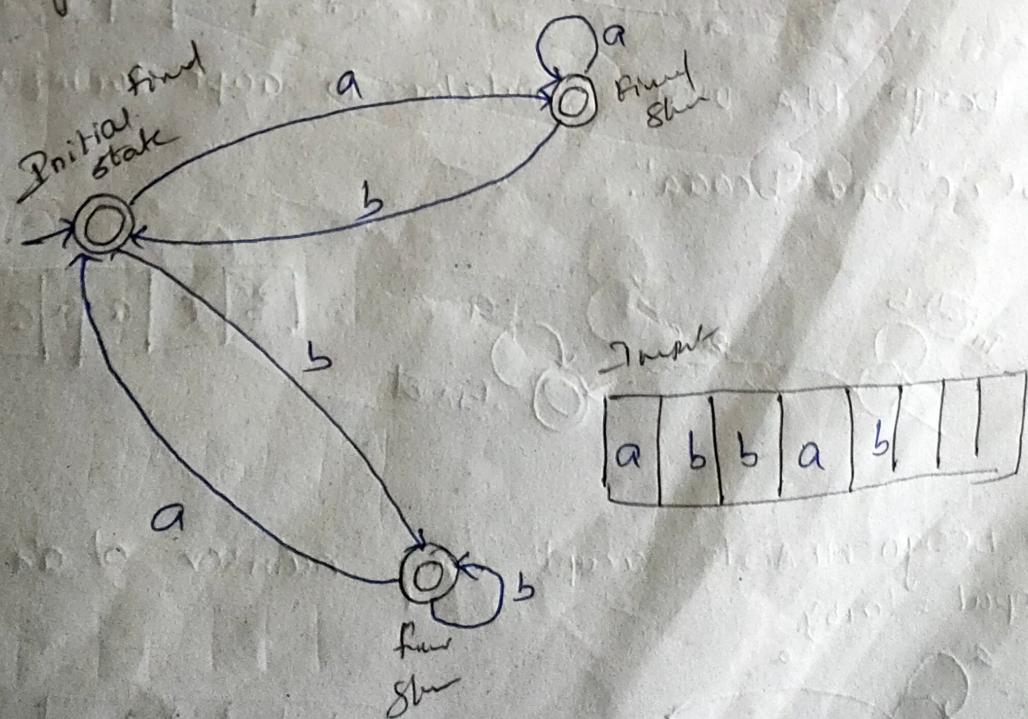
23) Design DFA using simulator to accept the string  
the end with ab over set  $\{a, b\}$  w = aabab.



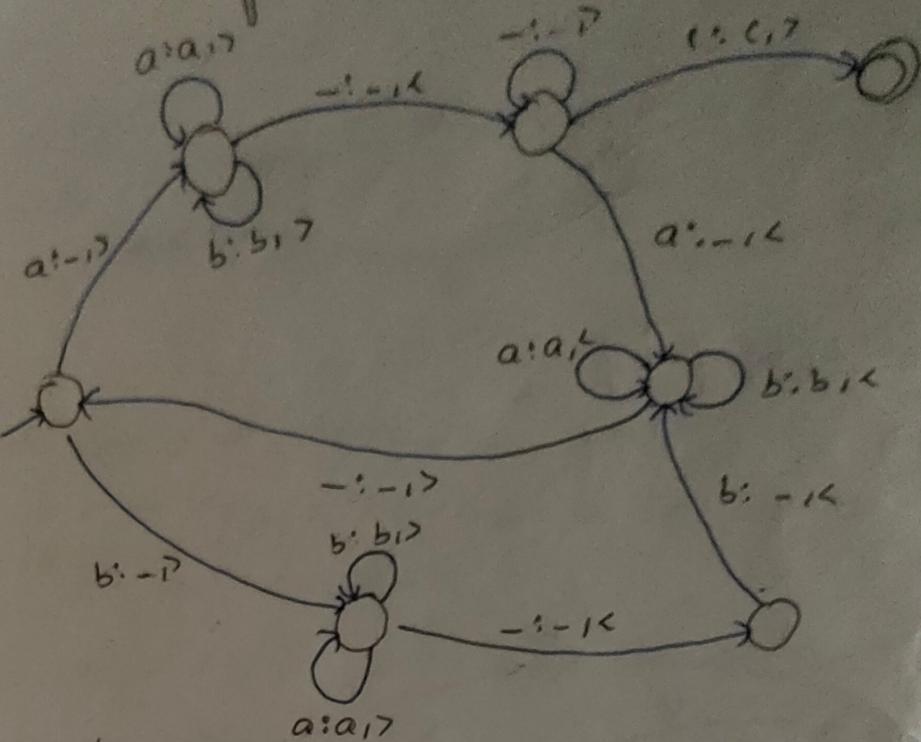
24) Design DFA using simulator to accept the  
string having 'ab' as substring over the set  
 $\{a, b\}$ .



25: Design DFA using simulator to accept the  
string start with a or b over the set  $\{a, b\}$



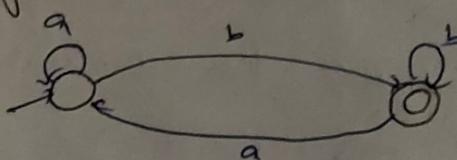
- 26 Design TM using simulator to accept the input string Palindrome blocks



Start

b	b	a	b	b		
---	---	---	---	---	--	--

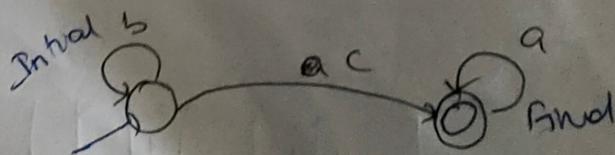
- 28 Design DFA using simulator to accept the string true end with ab over set  $\{a, b\}$  w=abaaab



Input

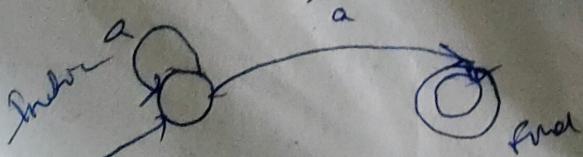
a	b	a	a	b	a	b
---	---	---	---	---	---	---

- 29 Design DFA using simulator to accept the input strings "bc", "c", and "bcaaa".



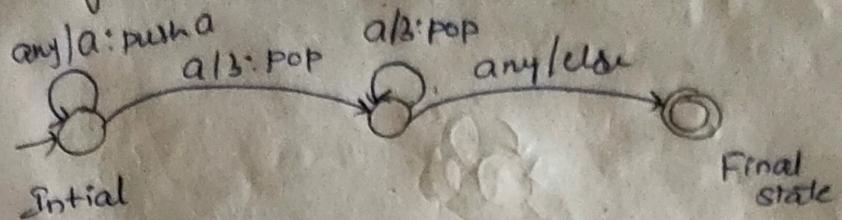
b	c	a	a	c
---	---	---	---	---

- 30 Design NFA to accept any number of a's when input = {a, b}.



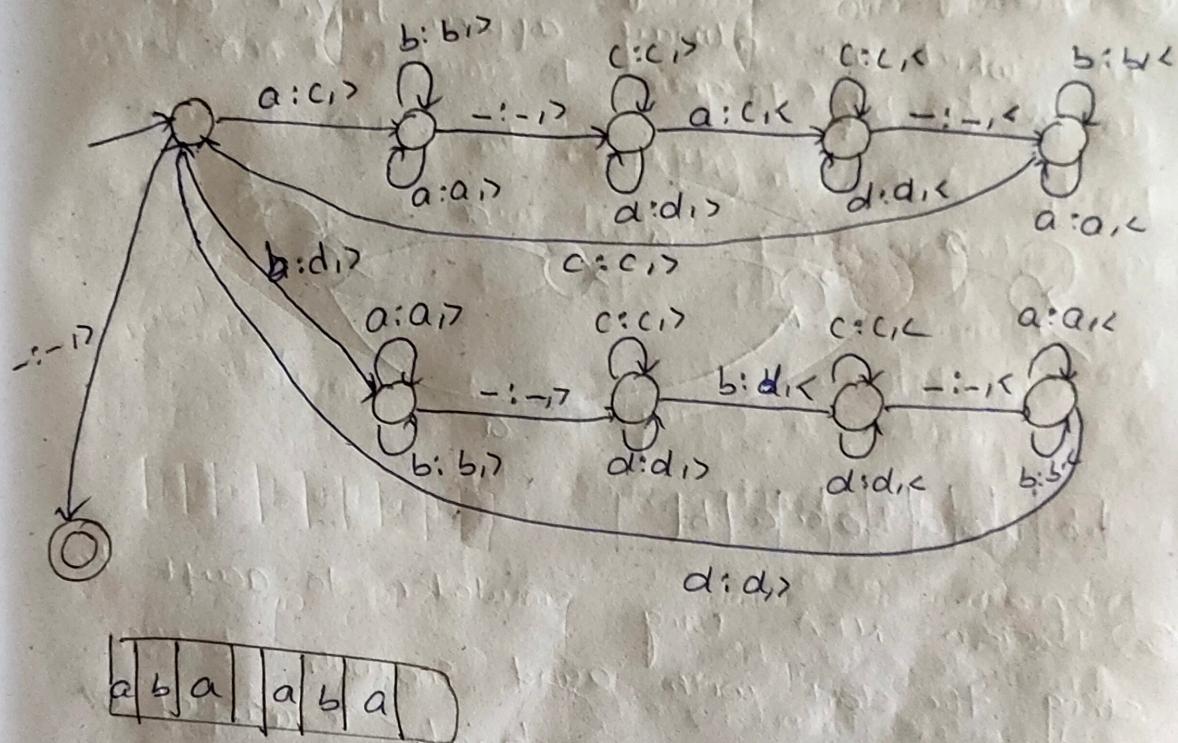
a	a	a	a	a	a	a	*
---	---	---	---	---	---	---	---

(31) Design PDA using to approach the accept the string  $a^n b^n$ .

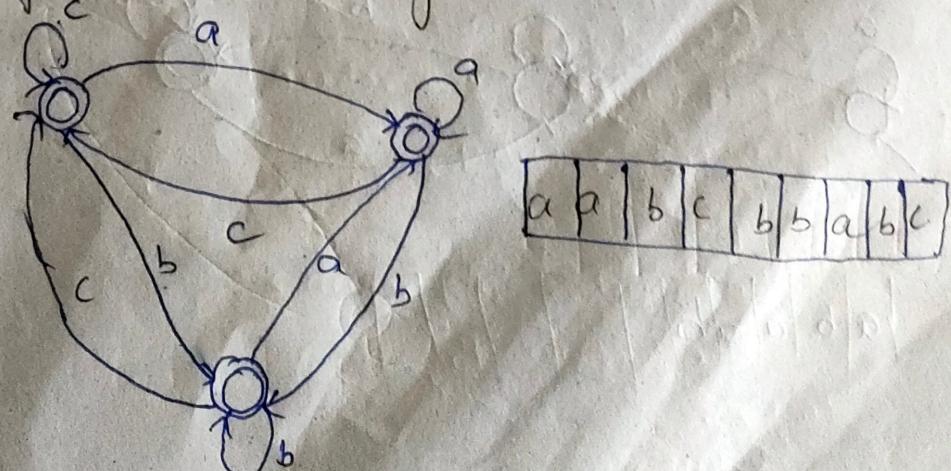


(32) Design TM to perform string comparison

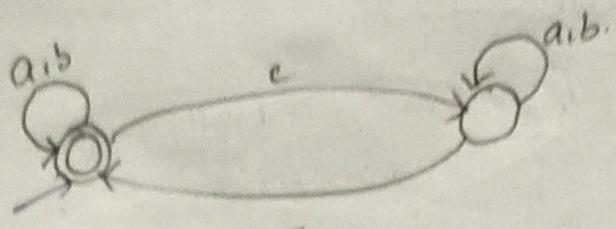
$in = aba \quad abab$



(33) Design DFA using Simulator to accept the string having 'abc' as substring over the set {a,b,c}

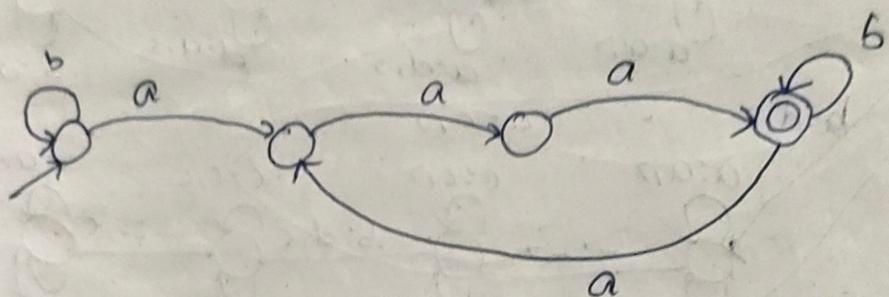


(34) Design DFA using simulator to accept even number of 'c's over the set {a, b, c}.



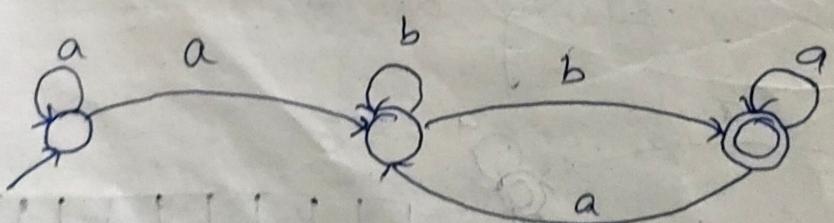
a	c	c	c	b	c
---	---	---	---	---	---

(35) Design DFA using simulator to accept strings in which 'a's always appear tripled over in put {a, b}.



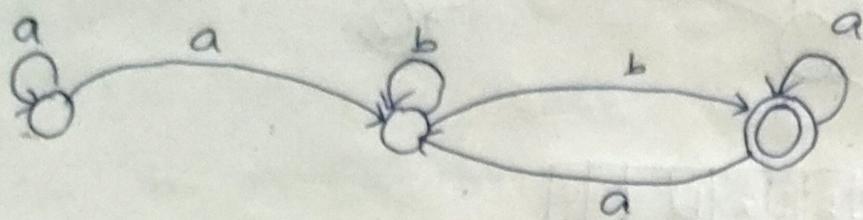
b	a	a	a	b	a	a	b
---	---	---	---	---	---	---	---

(36) Design NFA using simulator to accept strings starting with 'a' and ending with 'b' over set {a, b} and check w=abaaab is accepted or not.



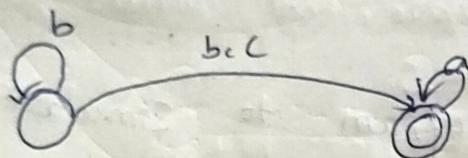
a	b	a	a	b				
---	---	---	---	---	--	--	--	--

37 Design NFA using simulator to accept the string that start and end with different symbols over the input {a, b}



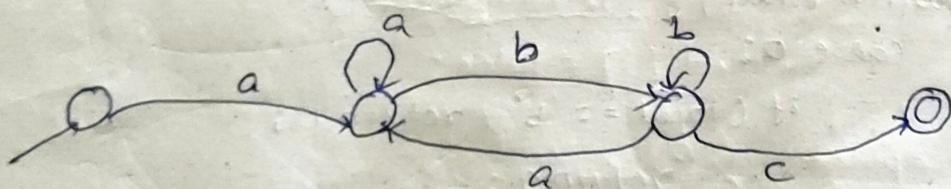
a	b	a	b	a	a	b
---	---	---	---	---	---	---

38 Design NFA using simulator to accept the Input string "bbc", "c" and "baaa".



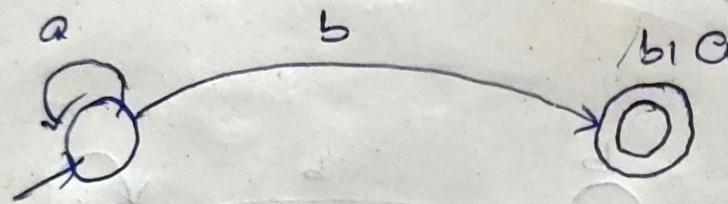
b	b	c	a	a	a
---	---	---	---	---	---

39 Design DFA using simulator to accept the string that end with abc over set {a, b, c} w= abbaababc.



a	b	b	a	a	b	b	c
---	---	---	---	---	---	---	---

(4) Design NFA to accept any number of b's where input =  $S(a,b)^*$ .



a	b	b	a	b	b		
---	---	---	---	---	---	--	--

(2) ~~Ans~~

(2) write a c program to simulate a non-deterministic finite automata (NFA) for the given language representing string Start with b and end with a.

~~Ans~~

Aim :- To write  
vvv ~~write~~ a c program