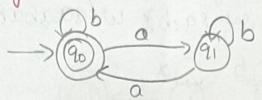
Design a DFA using simulator to accept even number of als



States: 90,9,

Initial state: 90

Final state: 90

(dod input symbols: 89,63

Automata = { {90,9,6,5a,63,8,90,90} \$(90,0)=91

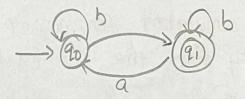
where 8

states: 90,9,92

Stat 65 : 90,91

Par 3 (901b) = 90

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



States = 90,92

P=(d, P)?

initial State = 90

Final State = 9,

input symbols = {a 1b} 2 admpd tugar

Automata = { {90,9,3, {9,60,63,8,90,9,3

where 8 8(90,19)=91 8(90 (6)=90 8(94,9)=90 8(91, 6)=9,

Practical Assignment a Design a DFA using simulator to accept string the with ab over set {aib} w=aaabab.

States: 90,91,92

V. Thanker

initial state: 90

final state: 92 (92, ab)

input symbols = 2aiby

Automat 9 { \$90,9,92 }, 89,69,5890,923 = 92

String:-aaabab S(90, aaabab)=8(9, aa

opening bab)

= 8 (91, abab)

(d. p3: 810dmp2 = 8(91, bab)

= 8(91;b)

= final state

string a ccepted.

Design DFA using simulator for accept the string having ab as sub string over the set {a,b}.

States: 90,9,192

initial state: 90

ap-(0, 4P)?

P-(d, 19)8

Final State: 92

Enput Symbols = 2916}

Automat 0 = { {90,9,92}, 20,6}, 5,2092}

where &

8(90,9)=9,

8(90,6)=90

8(91,9)=9,

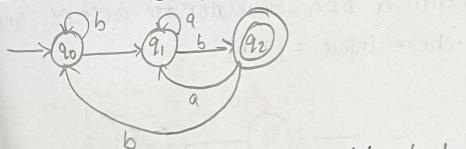
8(9,,6)=92

8 (92,0)=92

8(92,6)=92.

5. Design a DFA simulator to accept the string start with a or b over the set faibs

hoose bad bead 6. Duign a DFA using simulator to accept the string end with ab over the set {a16} w=a66aa bab.



States: 90, 91, 92

initial state : 90

Pinal State: 9,0 00000

input Symbols = {a,b}

Automat a = { {90,91,91}, {a,b} \$5,90,92}

w=abbaabab

s(90, abbaabab) = S(91, bbaa

(distab)

= S(n, baabab)

25(90, aa bab)

= S(91, abab)

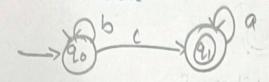
=8(91,bab)

= 8 (92, ab)

= 8/91,b).

· fir or & fdist for 9, 8 16 16 8, 80 90 918.

Firm State String accepted. "c", and "bca aa".



States: 90,919

initial state: 90

Final state: 97

input symbols: 9,60

Automata = { 190,913, 2016}, 5,90,913

where s S(20,b)=20 S(20,c)=21 S(21,a)=21 bc,c,and beaaq Strings accepted.

Design a DEA Simulator to accept any number of a's where input = {916}

Oi = 90,97

$$5 = \{a,b\}$$
 $90 = 90$
 $5 = 90$

(dod (1) 2 =

(do, (P)) =

where δ $\delta(90,a)=9,$ $\delta(90,b)=9,$ $\delta(91,a)=9,$ $\delta(91,b)=9,$

Automata = { {20,9,3, {a,b}, 8,90,9,3.