Assignment. 01

course: CSE 331

sec: 09

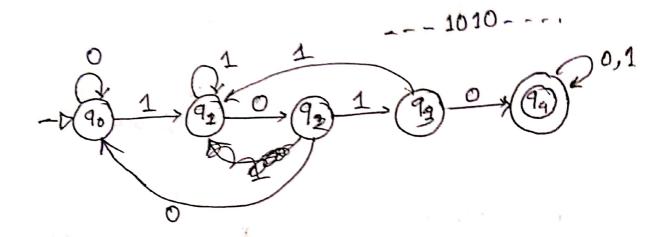
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## Ans. to the Q. no.1

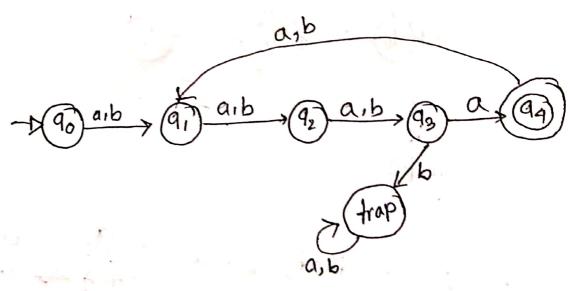
a) given that,

L= 2ω∈ 20,19 ; ω contains "1010" as a substring 4.

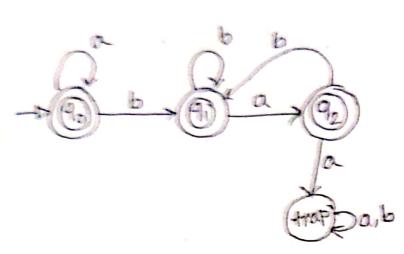


b) given that, L={we}a,b;\*: "a" occurs in every

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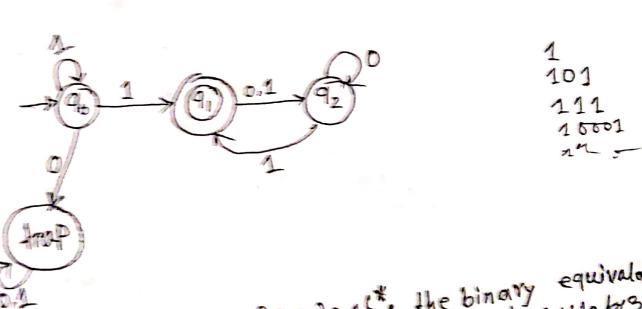
L= {we }a,b) : every 'b' is followed (1) given that, by at most one "a" }



bisabla

d) given that,

L= { we{0,1} \*: weentain starts and ends with 1 and length of wis odd ?

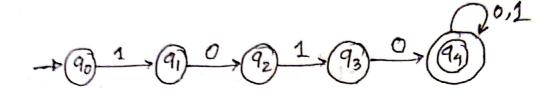


e) given that, L= ?WE?0,15 the binary equivaled of shire as is divisible by shire as

1001

## Ans. to. the Q. no.2

a) given that, L= \we \rangle 0.15 +: W starts with "1010" 4



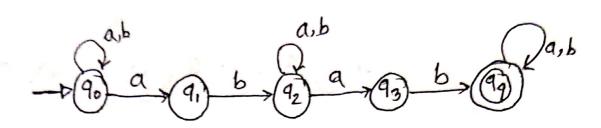
b) given thed, L= \w \in \gamma 0.15 \cdots 3rd last symbol in \w is 17

c) given that,

L= {WE } a, b; " w ends with "bab" }

d) given that,

1 = {WE(a,b)": the count of substring "ab" in w is at least two?



e) given that,  $L=\{w\in\{0,1\}^*: w \text{ contains a substrim}\}$ 

$$-\sqrt{q_0} \sqrt{q_1} \sqrt{1} \sqrt{q_2} \sqrt{q_3} \sqrt{q_3} \sqrt{q_3}$$

## Ans. to, the Q. no.3

b) given that,

L={We}{a,b}?\*: w starts and ends with

same symbol and the Length

of w is odd y

d) given that, L= \we \and \and \and \text two "a"s's
followed by at least two "a"s's

-> a\* (baa)\* a\*

e) given that, L={we}ost": w start with "low's

= 1011 (0H)2