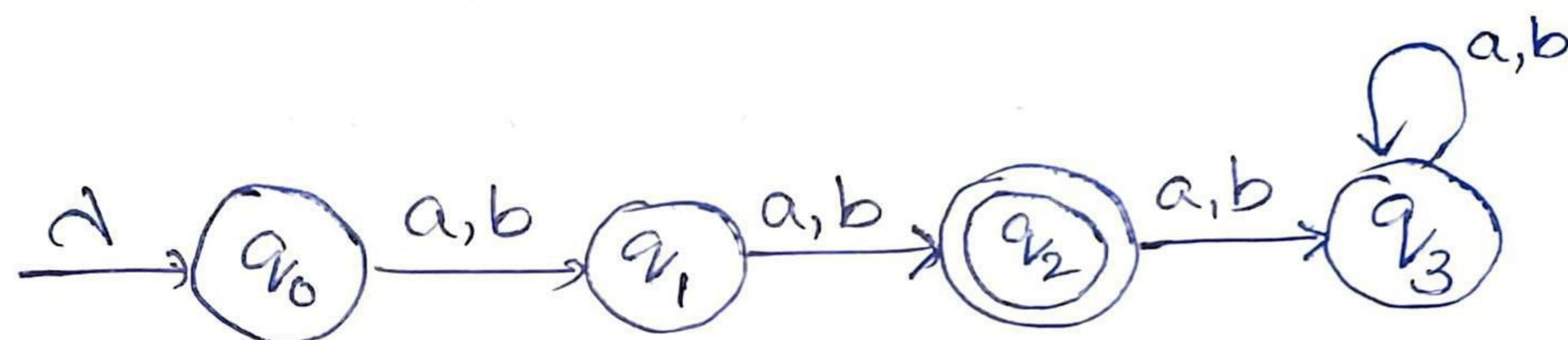# CS303 Tutorial-1

Name of Student : M.Maheeth Reddy

Roll No. : 1801CS31

Ans 1:

DFA to accept set of all strings over $\{a,b\}$ of length exactly 2.
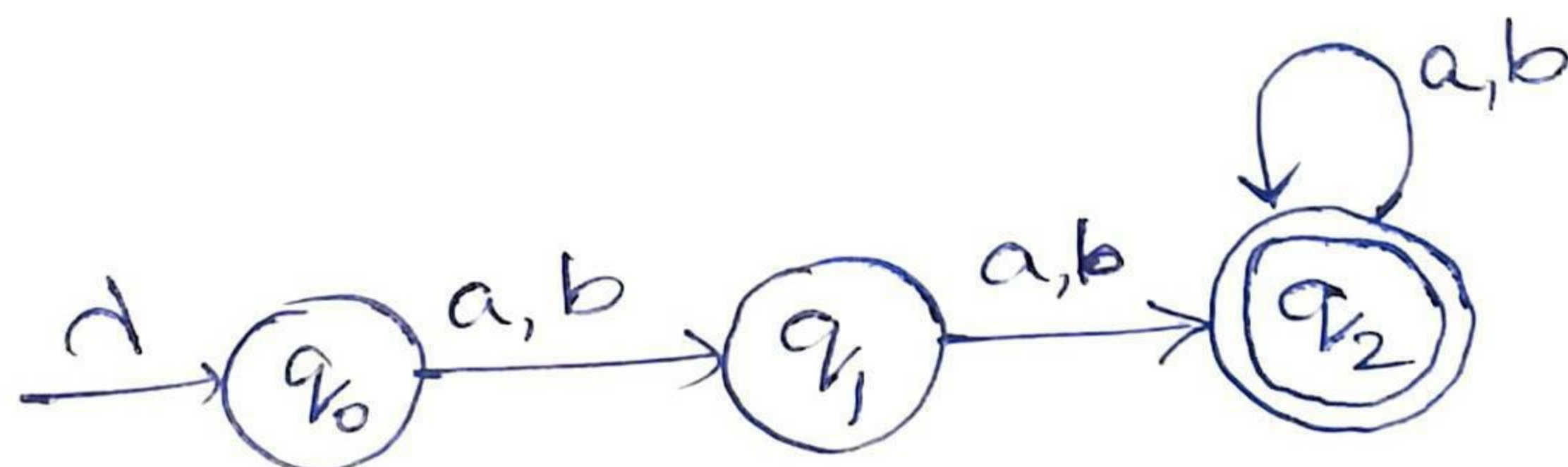

Accepting State: q_2 Trap State: q_3
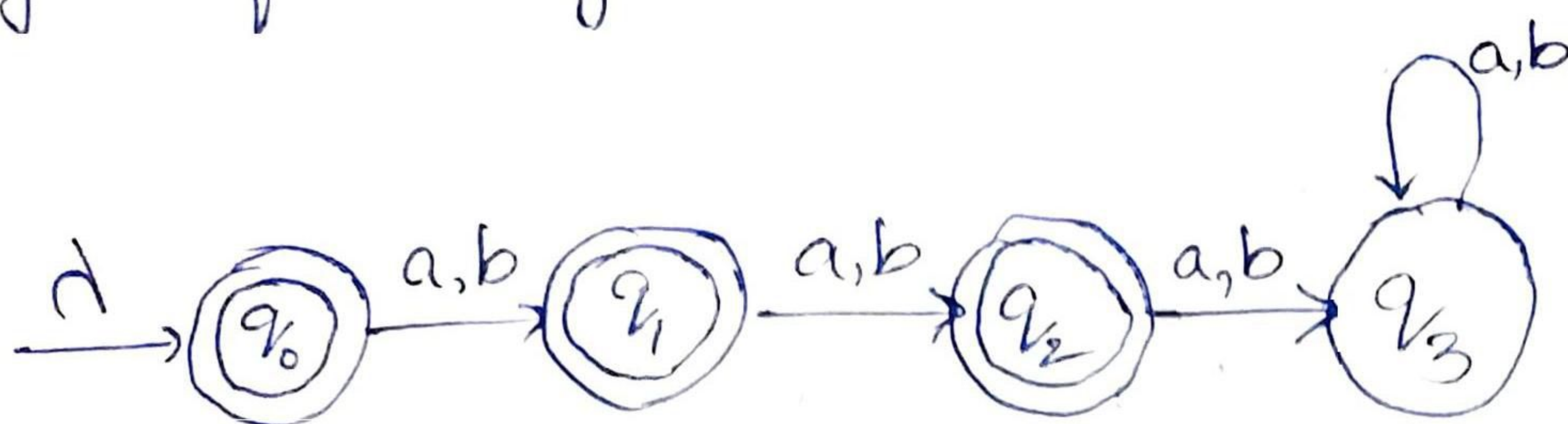

Ans 2:

DFA to accept set of all strings over $\{a,b\}$ such that length is atleast 2.

Accepting State: q_2
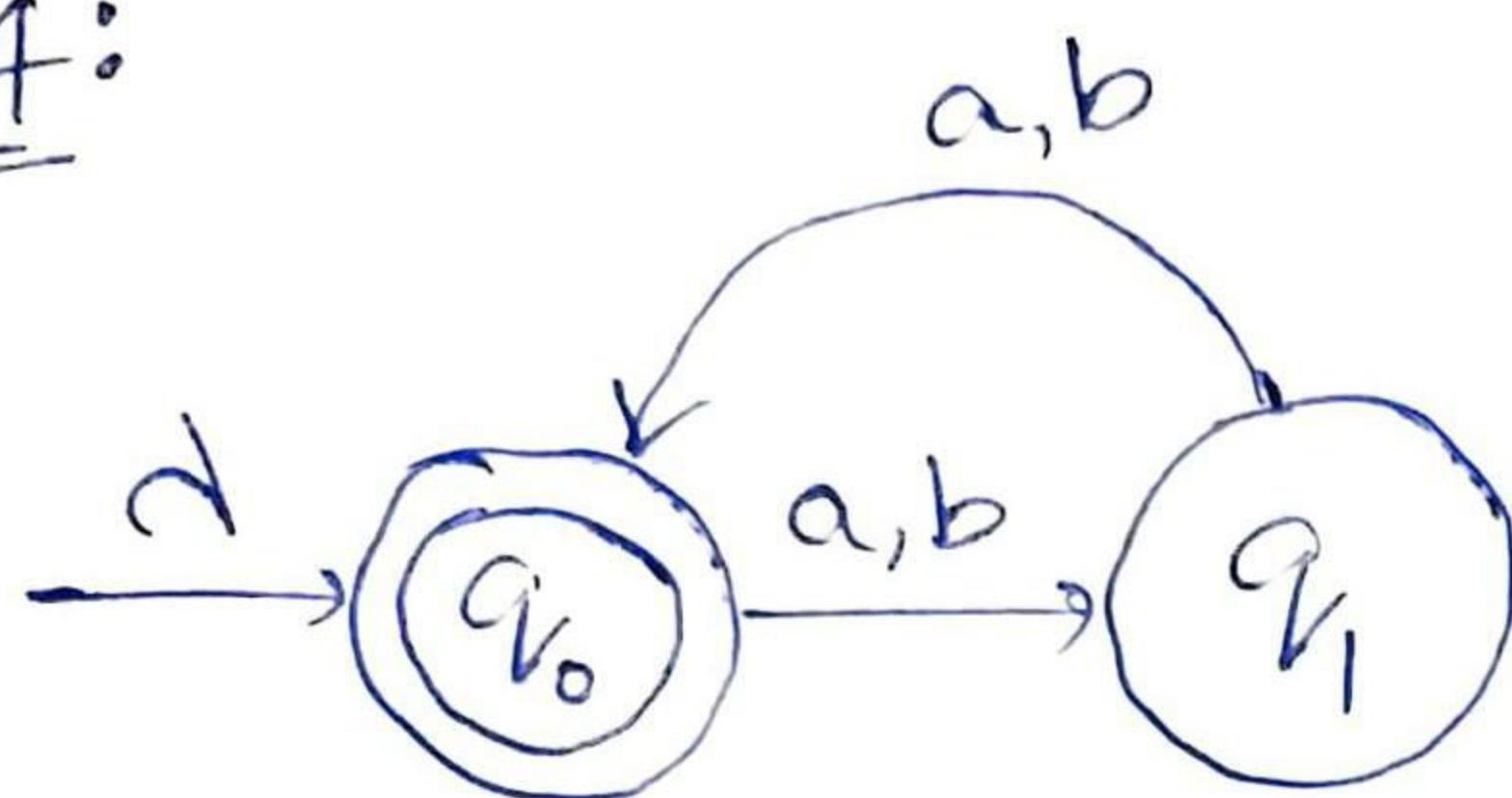
Ans 3:

DFA to accept set of all strings over $\{a,b\}$ such that length of string is atmost 2

Accepting States: q_0, q_1, q_2

Trap state: q_3

Ans 4:

DFA to accept set of all strings over $\{a, b\}$ such that $|w| \mod 2 = 0 \quad [w \subseteq \{a,b\}]$

Accepting State: q_0