Problem 2 . Description: The acceptable strings of the language are & (Null string); aa, bb, aaaaabbbbb, babbabb etc. Non acceptable strings of are aaaaaaaaa bbbbbbbbbbaba abababab etc Deterministic finite automata for the given language is given DFAM = (Q, Σ, S, Q_0, F) where Q = set of all states = $(Q_0, Q_1, Q_2, Q_3, Q_3)$ Start state is Qo
Start state is Qo
F = Set of all states = {Q2,Qy} and the transition are defined in the transition diagram Jest cases: output - string accepted Input 2 - aaaa output - string not accepted
Input 3 - aaaa output - string accepted Input 1-aabb output - string not accepted Input 4 - aaa