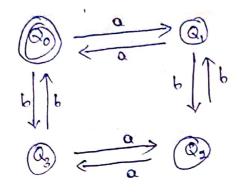
Program - 1



DFA $M = (Q, Z, \delta, Q_0, F)$ $Q = Set of all states = \{Q_0, Q_1, Q_2, Q_3\}$ $Z = Input alphabet = \{Q_0, Q_1, Q_2, Q_3\}$ Start state is Q_0 F = Set of all states $= \{Q_0\}$

Strings	Output
ab	Not accepted
oab	Not accepted
aabb	Accepted
ah ab olo ab	Accepted
abcef	Not accep Invalid Taken

DFA = $(Q, \Xi, \delta, 0_0, F)$ $Q = \{Q_0, Q_1, Q_2, Q_3, Q_4\}$ $\Sigma = \{Q_0, b\}$ Start States = Q_0 Final state = $\{Q_2, Q_4\}$

String.	Output
abob	Not accepted
abaab	Not accepted
bbaa	Accepted
bbaabb	Accepted
obcdef	Invalid Token