Lab 2

DFA lab

1. a. go is the start state

× 7 6 7

b. { (abub)*} } {q3}

 $c. \quad q_0 \rightarrow q_1 \rightarrow q_3 \rightarrow q_1 \rightarrow q_3$

d. Yes. this machine accept abab.

e No, this machine doesn't accept E

$$S(9_{1},b) = 9_{3}, S(9_{2},a) = 9_{2}, S(9_{2},b) = 9_{2}$$

 $S(9_{3},a) = 9_{1}, S(9_{3},b) = 9_{3}$

3. a. two strings are accepted by DFA first one babbb second one ababb b. two strings are rejected by DFA first one aaab second one aba Language = { WIW contain ab or b, and doesn't contain "aa" substring

3 S 2