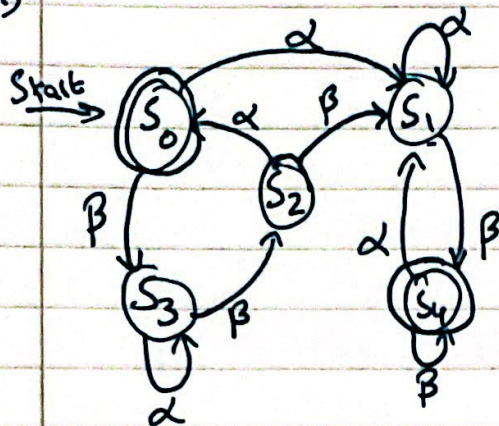


Muqaz Rajput  
Assignment 1:

①

a)



Double circle on  $S_0, S_4$  as they are the final/accept states.

b)  $M_2 = \{ \{P, Q, R, S, T\}, \{a, b\}, \delta, P, \{R, S\} \}$

$$\delta =$$

	a	b
P	Q	S
Q	R	S
R	T	R
S	T	R
T	T	P

②

a)  $L = \{ w \text{ string over } \{0, 1\} \mid w \text{ has at least 3 ones} \} \rightarrow (\text{basically has 3 or 4 ones})$

b)  $L = \{ w \text{ string over } \{0, 1\} \mid w \text{ starts with one and has odd number of zeroes} \}$

③

