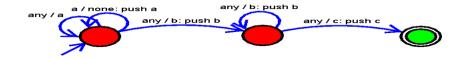
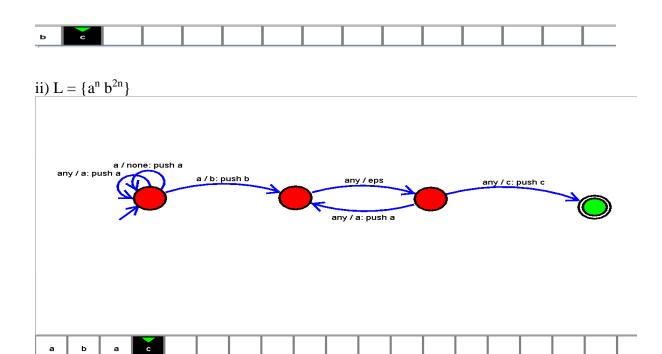
Design a PDA for the following languages

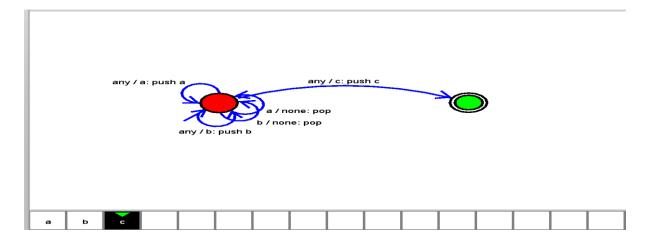
i)
$$L = \{a^n b^n\}$$





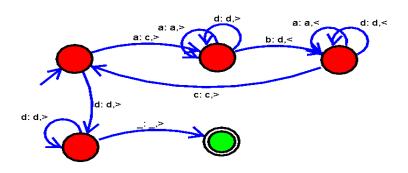
Design a PDA that accepts by empty stack for

 $L = \{ w \mid w \in (a+b)^* \text{ and } n_a(w) > n_b(w) \}$



Design a TM for the languages given below: i) $L = \{0^n 1^n \mid n \ge 1\}$

i)
$$L = \{0^n 1^n \mid n \ge 1\}$$





ii)
$$L = \{0^n 1^n 2^n \mid n \ge 1\}$$

