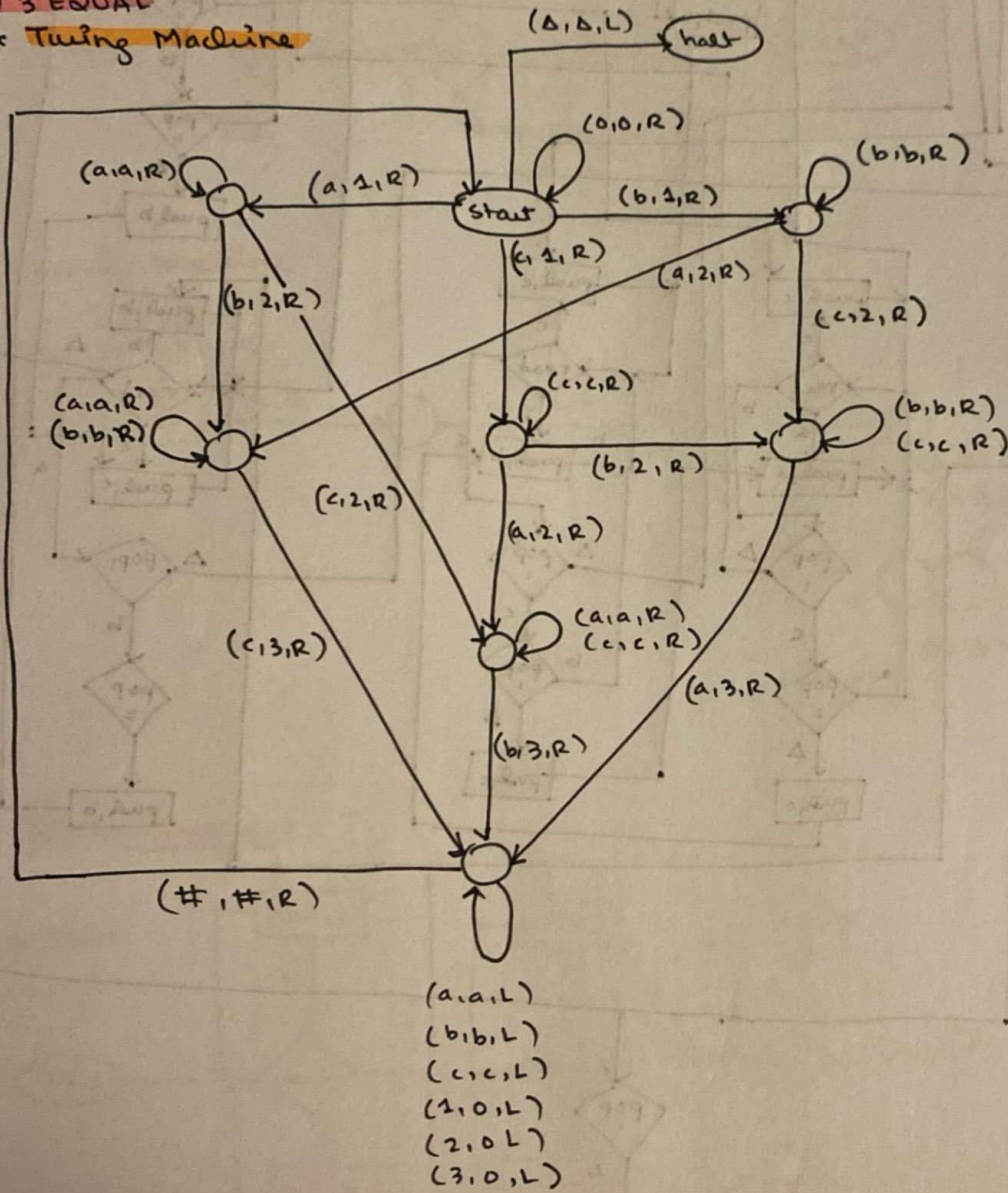


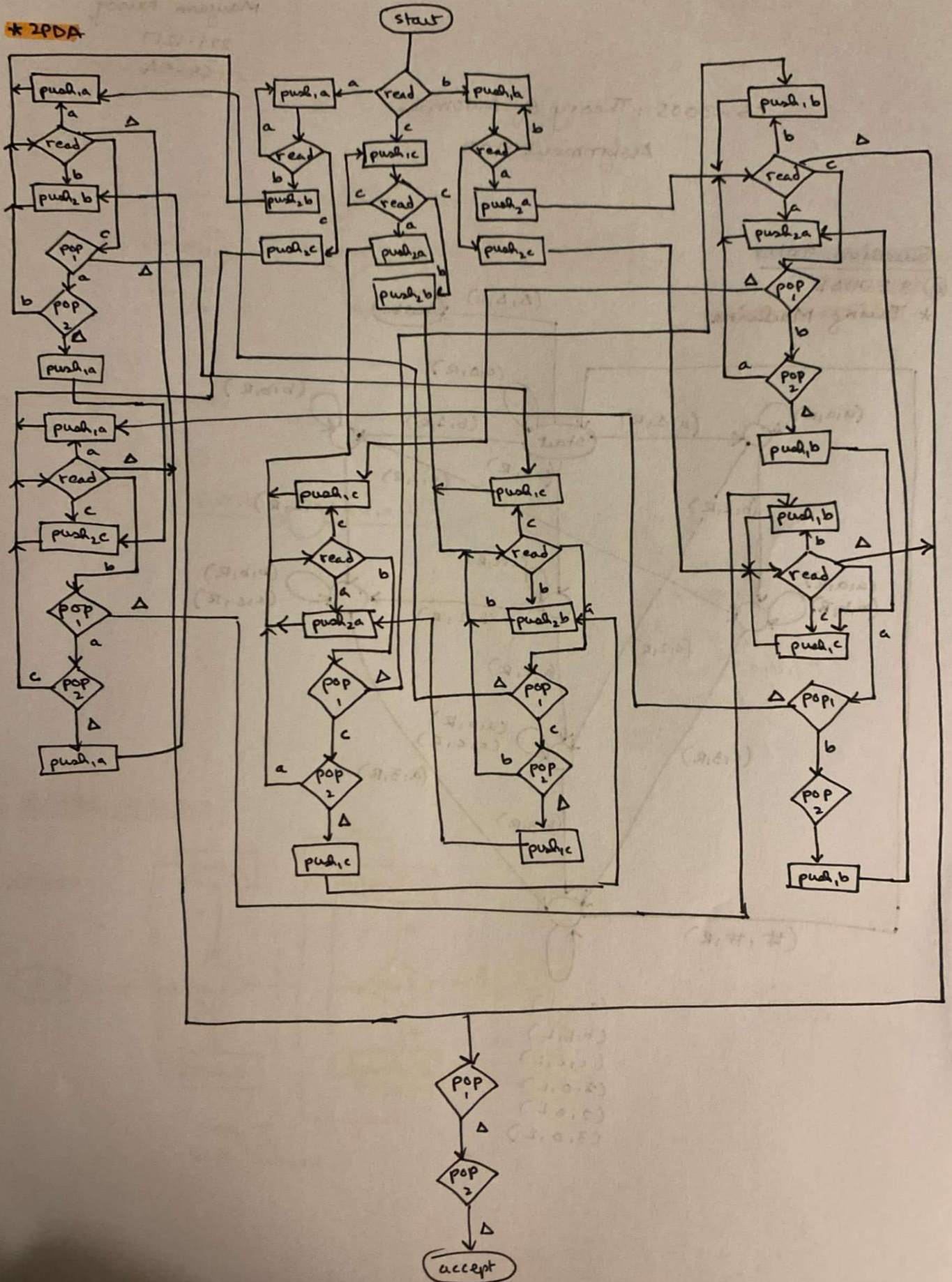
CS - 3005 : Theory of Automata
Assignment #04

Question #01:

@ 3 EQUAL
* Turing Machine

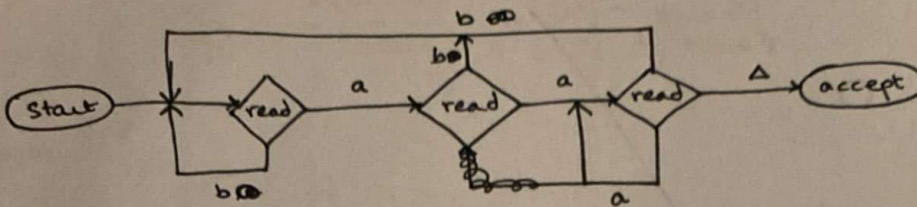


* 2PDA

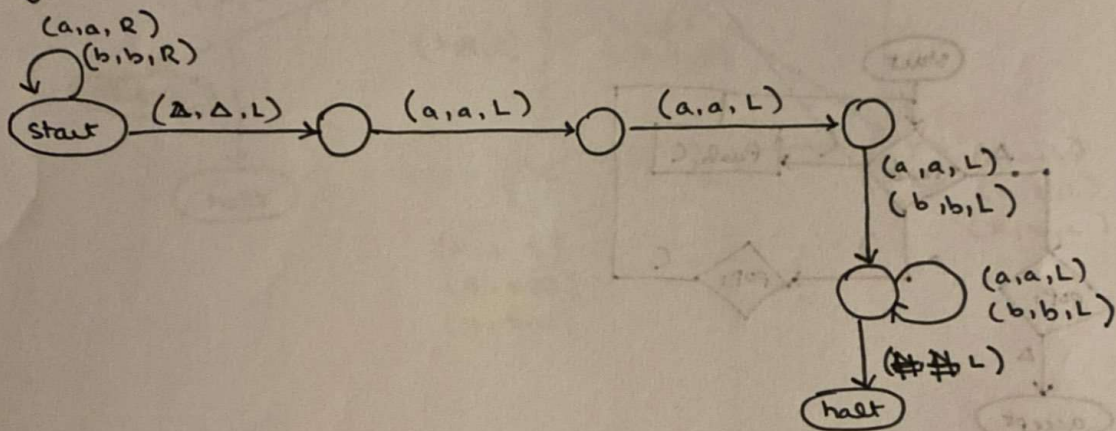


⑥ End with double a's

* 2PDA :

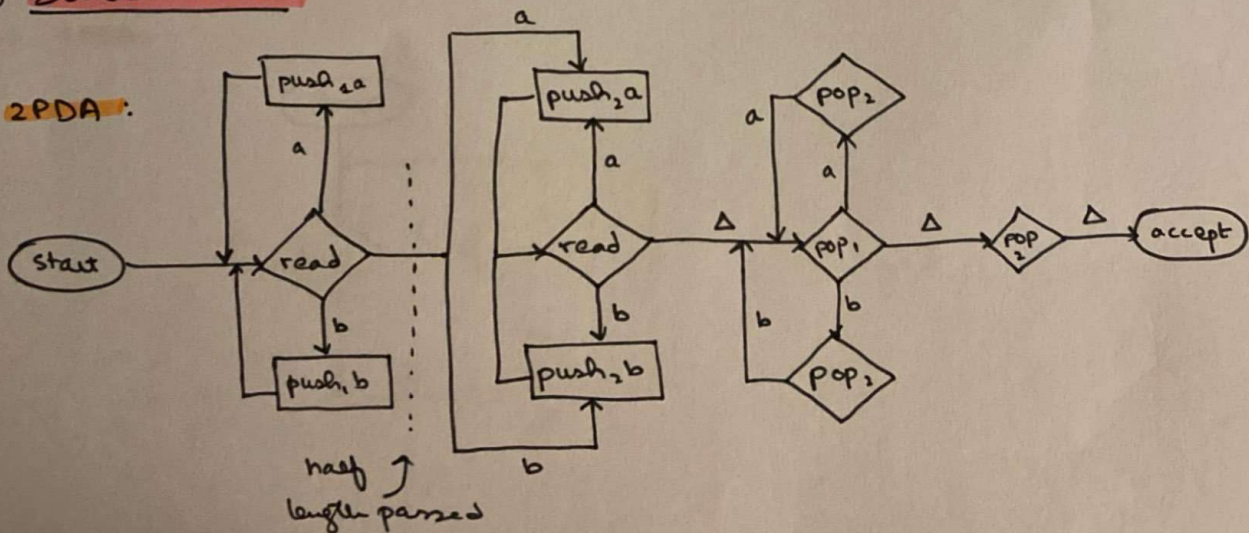


* Turing Machine

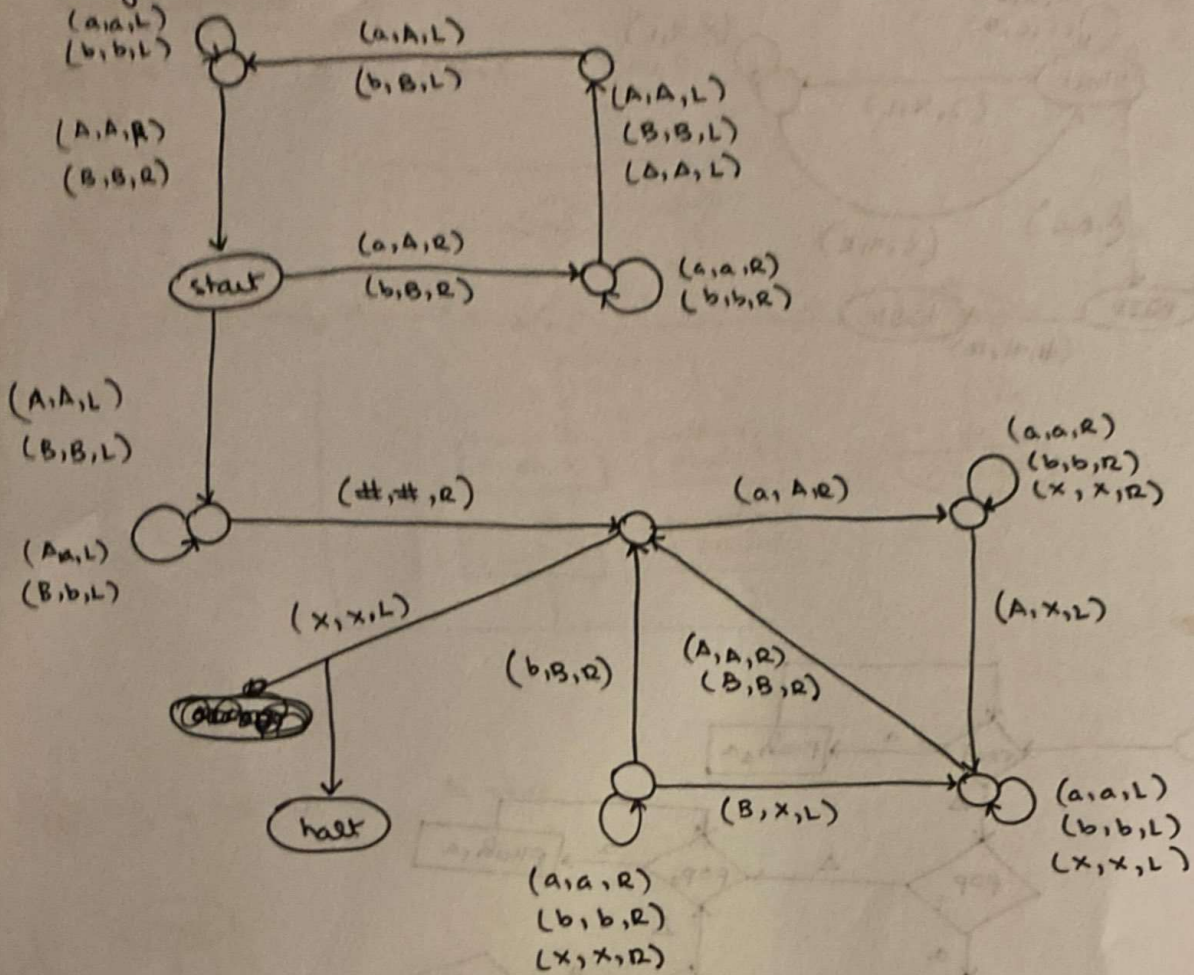


© Double word

* 2PDA :

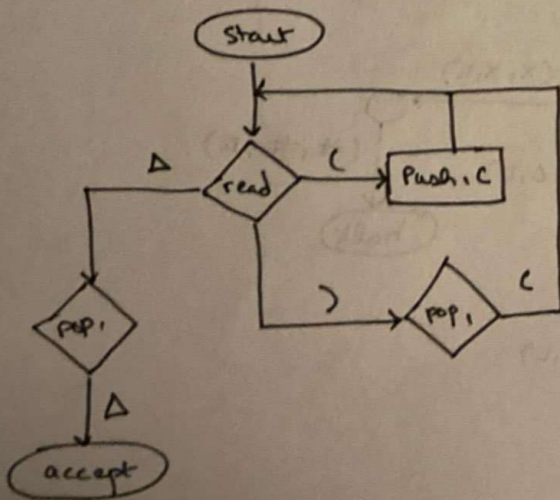


* Turing Machine

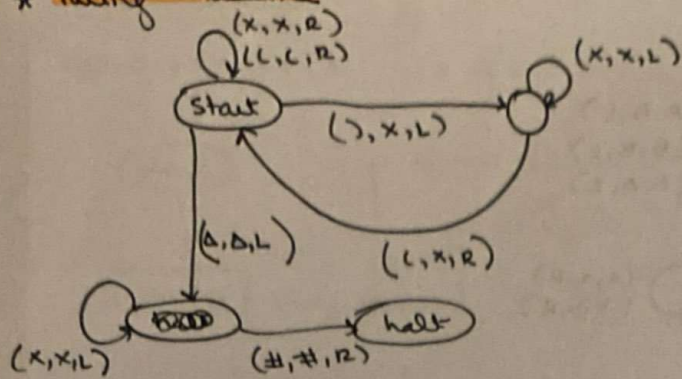


④ Parenthesis

* 2PDA

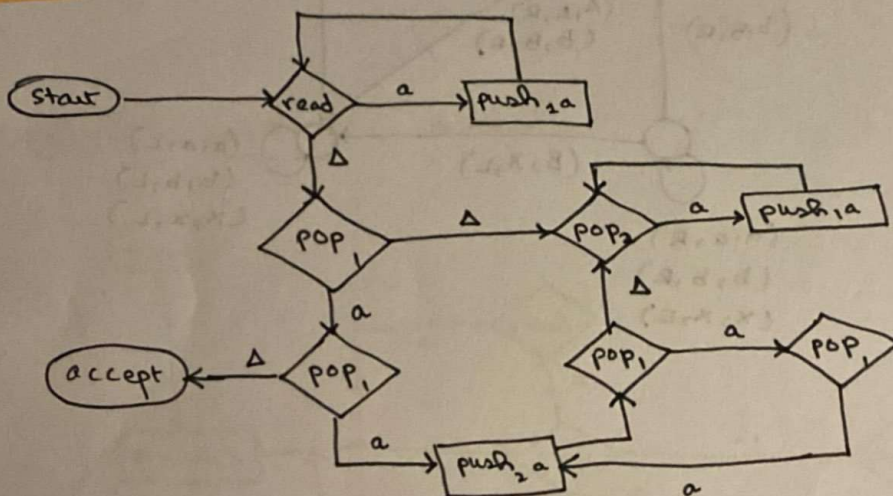


* Turing Machine

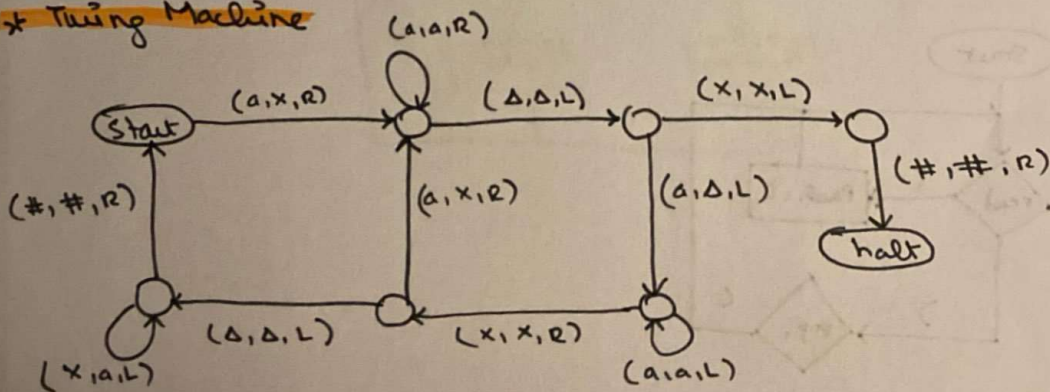


② a^{2^n}

* 2PDA

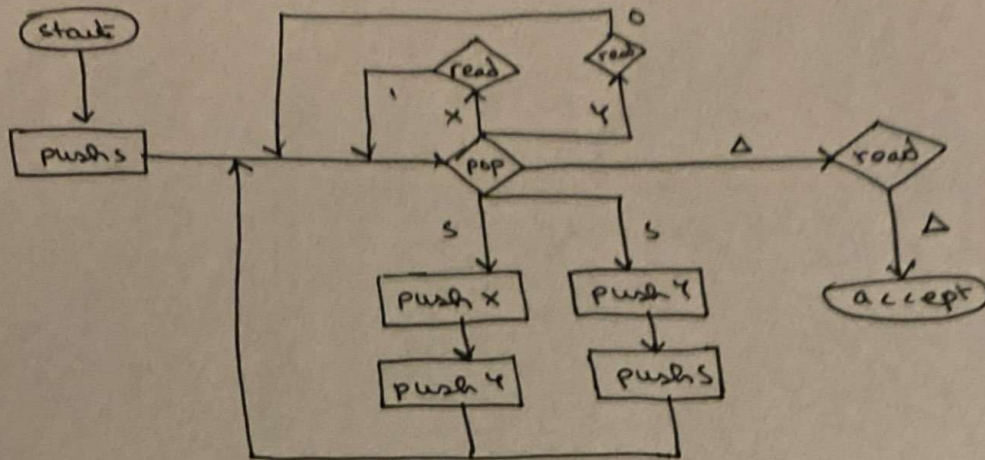


* Turing Machine



Question #02

a) $S \rightarrow YX \mid SY \mid \Delta$ $X \rightarrow 1$ $Y \rightarrow 0$



b) $S \rightarrow SS \mid AA$ $A \rightarrow a$

