Assignment 1 (173202-ACD)

Differentiate DPDA & NPDA with an example.

Design PDA for the following

(3) L= www.

(4) L= www.

(5) L= www.

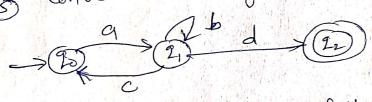
where $w \in (a,b)$ & & whis reverse of w

3 Design a minimal DFA that accepts all string over $\Sigma = \langle a, b \rangle$ such that every string accepted must contain be like

mo. da = o(mod 2) 11 mo. db = o(mod 2)

Design a DFA for larguage $L = (ab)^m :: n \ge 0$

(5) Convert following FA to equivalent R-E.



(6) white CFG for the following languese $L = \{auv \in (a+b)^*\}$

F write a R.E. for the following Language

L={anbm|nz4, m \le 3}

(8) Design a DFA that accepts all strings over $\Sigma = \{9, b\}$ such that for every accepted string, 2nd symbol from right end is always 1a1.

Sulmission Date: 24-104/2024 till spm (Deadline)