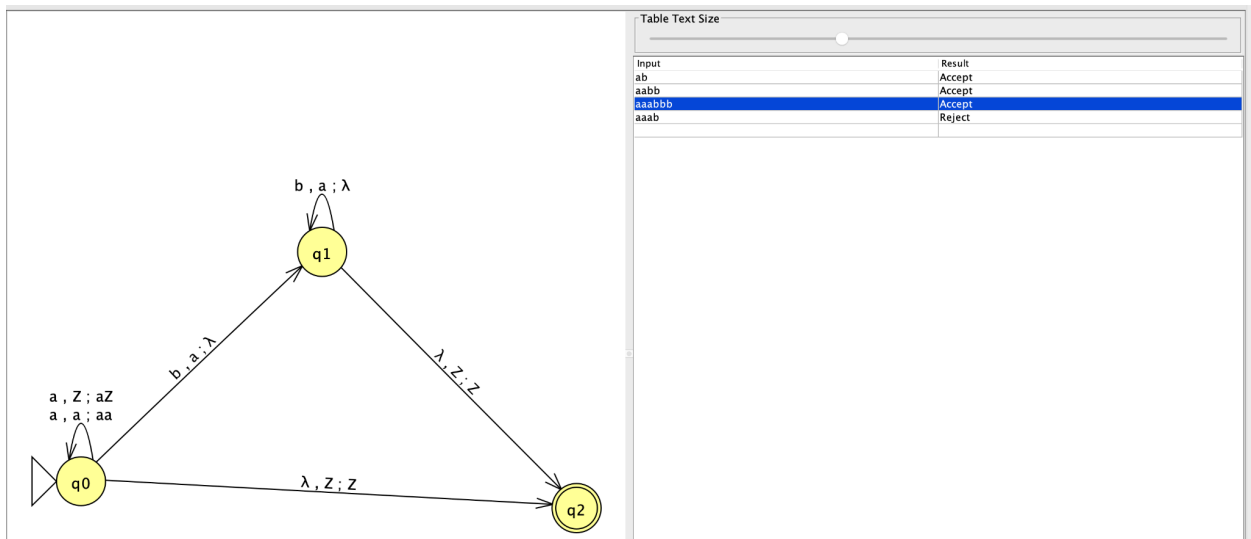


FLA Lab assignment

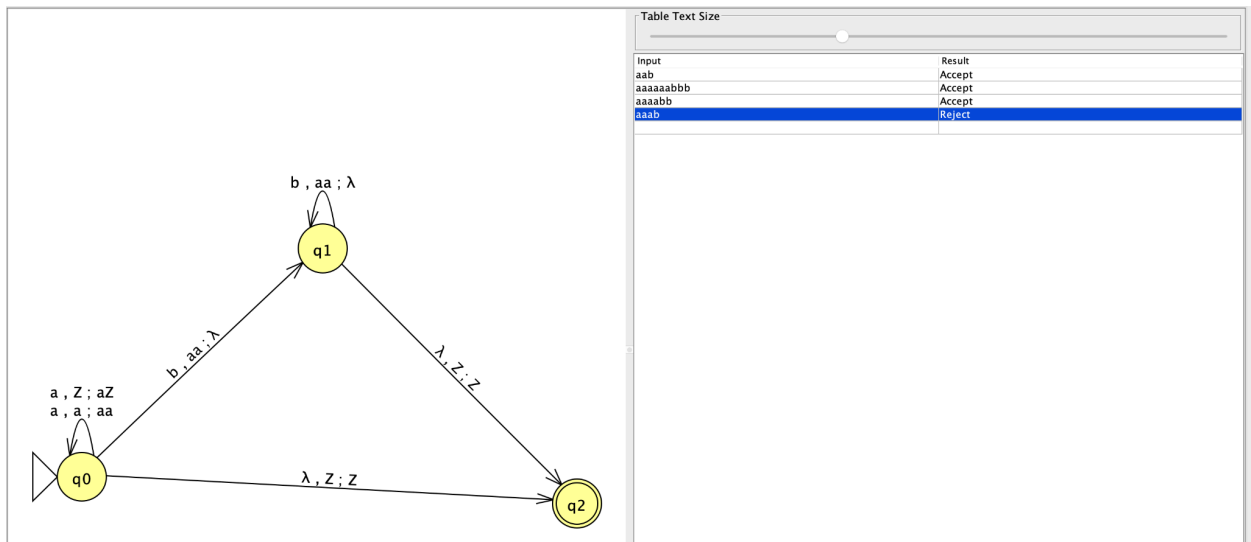
Name: J Viswaksena

RollNo: AM.EN.U4AIE21035

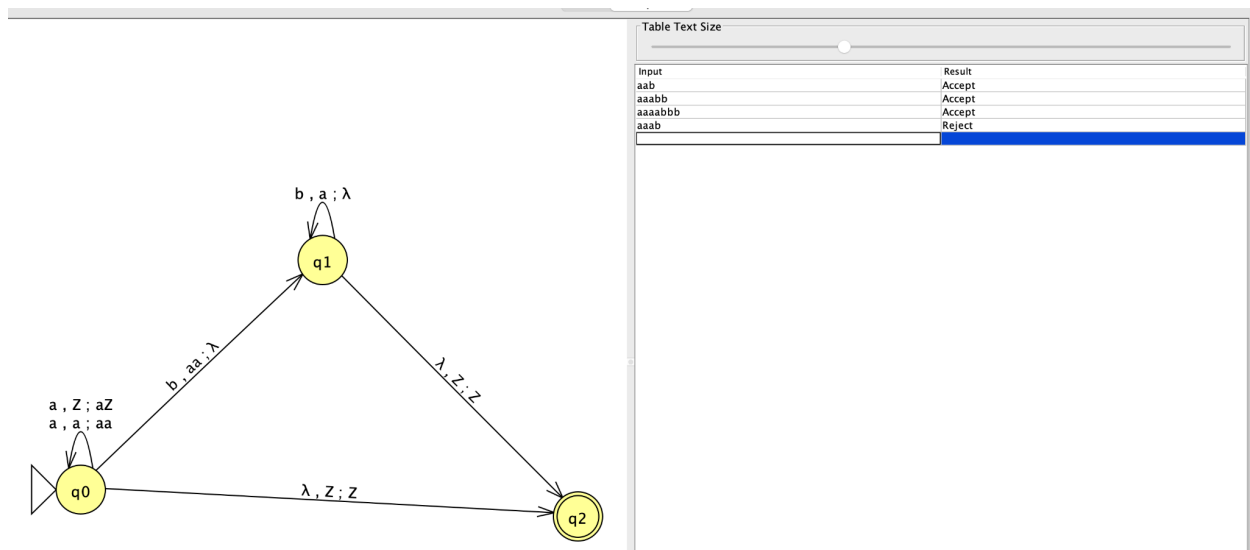
Q1) PDA for accepting the language $L = \{a^n b^n / n=m\}$



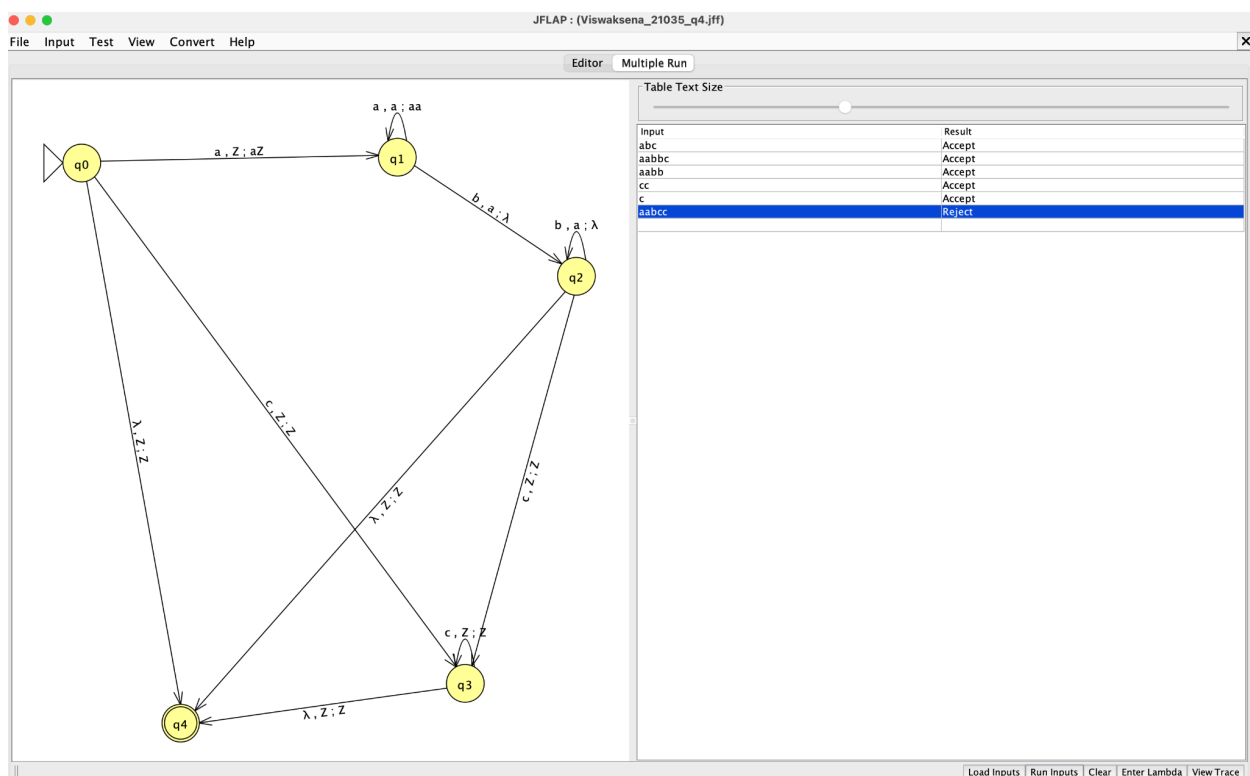
Q2) PDA for accepting the language $L = \{a^{2n} b^n / n \geq 0\}$



Q3) PDA for accepting the language $L = \{a^{n+1} b^n \mid n \geq 0\}$



Q4) $L = \{a^n b^m c^m \mid n, m \geq 0\}$



Q5) $L = \{WCW^R \mid W \text{ belongs to } (a,b)^*\}$

Apple Main JFLAP : (Viswaksena_21035_q6.jff)

File Input Test View Convert Help

Editor Multiple Run

Table Text Size

Input	Result
aaab	Reject
aab	Reject
aaaabb	Reject
aabcbab	Accept
c	Accept
babacabab	Accept

b, a ; ba
 a, b ; ab
 a, Z ; aZ
 b, b ; bb
 a, a ; aa
 b, Z ; bZ

c, Z ; Z
 c, a ; a
 c, b ; b

b, b ; λ
 a, a ; λ

λ, Z ; Z

q0 q1 q2

Load Inputs Run Inputs Clear Enter Lambda View Trace

Q6) $L = \{na(w) = nb(w) | w = (a,b)^*\}$

Apple Main JFLAP : (Viswaksena_21035_q5.jff)

File Input Test View Convert Help

Editor Multiple Run

Table Text Size

Input	Result
aaab	Reject
aabb	Accept
aaaabb	Reject
aabb	Accept
c	Reject
babacabab	Reject
	Accept

b, a ; λ
 a, b ; λ
 a, Z ; aZ
 b, b ; bb
 a, a ; aa
 b, Z ; bZ

λ, Z ; Z

q0 q1

Load Inputs Run Inputs Clear Enter Lambda View Trace