ST.XAVIER’S COLLEGE

(Affiliated to Tribhuvan University)

Maitighar, Kathmandu



**THEORY OF COMPUTATION LAB ASSIGNMENT #13**

**SUBMITTED BY:**

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4th Sem, 2nd Year

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# 1) WAP for PDA that accepts that L={a^nb^n}

Source Code

a = input("Enter any string over {a,b} : ")

stack = list()

state = 'q0'

stack.append('z')

print(stack)

for i in range(len(a)):

if a[i] == 'a':

state = 'q1'

stack.append('a')

elif a[i] == 'b':

state = 'q1'

stack.pop()

if stack[len(stack)-1] == 'z':

state = 'q2'

print(stack)

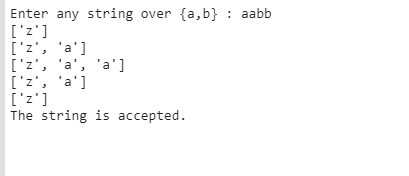
if state == 'q2':

print('The string is accepted.')

else:

print('The string is not sccepted.')

**Screenshots**

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