ST.XAVIER’S COLLEGE

(Affiliated to Tribhuvan University)

Maitighar, Kathmandu



**THEORY OF COMPUTATION LAB ASSIGNMENT #9**

**SUBMITTED BY:**

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4th Sem, 2nd Year

**SUBMITTED TO:**

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# 1)Implement NFA over {a,b} that accepts all the strings with substrings aa

Source Code

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

temp=['q0']

print(temp)

for i in range(len(a)):

b = list()

if 'q1' in temp:

if a[i] == 'a':

b.append('q2')

if 'q2' in temp and 'q2' not in b:

b.append('q2')

if 'q0' in temp:

if a[i] == 'a':

b.append('q0')

b.append('q1')

else:

b.append('q0')

temp = b

print(b)

if 'q2' in b:

print("The string is accepted")

else:

print("The string is not accepted")

**Screenshots**

