ST.XAVIER’S COLLEGE

(Affiliated to Tribhuvan University)

Maitighar, Kathmandu



**THEORY OF COMPUTATION LAB ASSIGNMENT #6**

**SUBMITTED BY:**

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017BSCIT029

4th Sem, 2nd Year

**SUBMITTED TO:**

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**1) Write a program for DFA that accepts the strings over (a,b) having even number of a's and b's**

**Source Code**

#Write a program for DFA that accepts the strings over (a,b) having even number of a's and b's

def q0(x):

if(x=='a'):

return q1

else:

return q3

def q1(x):

if(x=='a'):

return q0

else:

return q2

def q2(x):

if(x=='a'):

return q3

else:

return q1

def q3(x):

if(x=='a'):

return q2

else:

return q0

x=input("Enter a string to check if it belongs to the DFA::")

t=q0(x[0])

for i in range(1,len(x)):

t=t(x[i])

t=(str(t))

t=(t[10:12])

if(t=='q0'):

print("String Accepted")

else:

print("String Rejected")

**Screenshots**

