ST.XAVIER’S COLLEGE

(Affiliated to Tribhuvan University)

Maitighar, Kathmandu



**THEORY OF COMPUTATION LAB ASSIGNMENT #11**

**SUBMITTED BY:**

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4th Sem, 2nd Year

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# 1) WAP to identify MAC address

Source Code

'''

Write a program that validates the 48 bit MAC address

'''

import sys

address = input("Enter the address whose format is to be checked: ")

if len(address)!=17:

print("Invalid Mac address!")

sys.exit()

seperator = address[2]

if seperator==':' or seperator== '-' or seperator=='.':

pass

else:

sys.exit()

pieces = address.split(seperator)

for i in range(len(pieces)):

for j in range(len(pieces[i])):

if (pieces[i][j]>='a' and pieces[i][j]<='f') or (pieces[i][j]>="A" and pieces[i][j]<='F'):

continue

else:

try:

if int(pieces[i][j])>=0 and int(pieces[i][j])<=9:

continue

except:

print("Invalid MAC address!")

sys.exit()

print("The entered address is valid MAC address")

**Screenshots**

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