ST.XAVIER’S COLLEGE

(Affiliated to Tribhuvan University)

Maitighar, Kathmandu



**THEORY OF COMPUTATION LAB ASSIGNMENT #10**

**SUBMITTED BY:**

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4th Sem, 2nd Year

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# 1) WAP to identify C identifiers

Source Code

'''

WAP TO IDENTIFY C IDENTIFIERS

'''

a = input("Enter any string: ")

keywords =['auto', 'double', 'int', 'struct', 'break', 'else', 'long', 'switch', 'case', 'enum', 'register', 'typedef', 'char', 'extern', 'return', 'union', 'const', 'float', 'short', 'unsigned', 'continue' 'for', 'signed', 'void', 'default', 'goto', 'sizeof', 'volatile', 'do', 'if', 'static', 'while']

flag = 0

if a in keywords:

print("Since the given string is a keyword,")

flag = 1

elif ((a[0]>='A' and a[0]<='Z') or (a[0]>='a' and a[0]<='z') or a[0] == '\_') :

for i in range(len(a)):

try:

if ((a[i]>='A' and a[i]<='Z') or(a[i]>='a' and a[i]<='z') or a[i]=='\_') :

flag = 0

else:

raise ValueError

except:

if (a[i]>=0 and a[i]<=9):

flag = 0

finally:

if flag!=0:

flag = 1

break

flag = None

else:

flag = 1

if flag == 0 and len(a)>=31:

print("The given string is a C identifier but the length is too long. It is not considered as a good identifier")

elif flag == 1:

print("The given string is not a C identifier")

else:

print("The given string is a C identifier")

**Screenshots**

