

**(Affilated to Tribhuvan University)**

**Kathmandu, Nepal**

**COMPILER DESIGN AND CONSTRUCTION PRACTICAL**

**B.SC.CSIT**

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Q. Program to implement Regular Definition to check the identifiers in C

**Solution:**

d1 = [a-z|A-Z]

d2 = [0-9]

d3 = ['\_']

identifiers = d3\*.d1+.d2\*

**Program Coding:**

#import string module to define letters, digits and special character

import string

def regDef(inp):

flag = False

#definition for special characters [A-Z|a-z]

letters = list(string.letters)

#definition for digits [0-9]

digits = list(string.digits)

#definition of special characters

special = list(string.punctuation)

#exception for '\_' as a special character

special.remove("\_")

# if first char is a digit

if(inp[0] in digits):

return False

# if first char is a letter

elif(inp[0] in letters):

flag = True

# if first char is a special character except for '\_'

elif(inp[0] in special):

return False

else:

pass

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

#if invalid special characters are present

if(inp[i] in special):

return False

else:

flag = True

return flag

print("Program to implement Regular Definition to check the identifiers in C")

inp = str(raw\_input("Enter a string:"))

flag = regDef(inp) #funciton call

if(flag):

print("Correct")

else:

print("Incorrect")

**Output:**

