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Aim:
To write a python program by considering a function f(x) = x3.

Input is 'N' list. Each list contains 'M' dements. From the list,

find the maximum element. Compute: S = (f(x)) + f(x) + f(x)

Algorithm:

step 1: start

step 2: get the input value of m & n from the user

step 3: initialize a empty list I and mx

step 4: Using double for loop for N and M

step 4.1: Let the input & append in mx

step 5: initialize a emby list 1= ET

step 6: Yet the input value of 2 from the user

step 7: initialize s is equal to zero

step8: for loop in mx

step 6.1: increment s by increasing the power of 3

step 9: print 3/2

step10: stop

Program:

def f(x):

return x **3

N= int (input ('Enter N'))

M = int (input ("Friter M."))

d= []

 $m_X = []$

for i in range (N):

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for my in range (M):

L. append (int (input ("enter denerts;")))

mx.append (max(1))

L=E7

2 = int (input ("Enter 2:"))

5=0

for i in mx:

3

5+ = f(i)

st = f(i) print (sx 2)

Result:

The above code is executed successfully and the output is attached.

Expt. No. 8

Expt. Name. Validate the Credit Numbers based on the following Date: 08-01-2022

Aim:

To write a python program by Validating the Credit number based on the following condition: Begins with 4,5 or 6, contain exactly 16 digits, Contains only number (0 to 9). For every a digits a hyphen () may be included (not mandatory). No other special character permitted. Must not have 4 or more executive same digits.

Algorithm

stepl: Start

step 2: import the library re and itertools

step3: Spinitialize the text

step4: print the length of the text

step 5: initialize the 1 to K, sum (1 for ing)) for t, 9 initatools people (50) step 6: check the condition, if yes print "passed" else "footed". False step 7: Stop

Program:

import re import itertools

text = "5133-3387-8912-3456"

print (len(text))

if re search (r'Alussi7+', text) and len (text)=:16 and re search (r'[id]', text) and all (vz=3 for k, v in 1) and bool (re. Search (r's', text)) is Talse and bool (re search (r's search (r's, text)))

is True and lar(text) == 19):

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else: print ("it passed") else: print ("Failed False")	
else:	
print ("Failed False")	
Result:	
The above code is executed successfully is attached.	and the output