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# CS #186

# Section 1

'''

This program will find the sum of cubes for a given number

'''

# for loop

# num\_list = [10, 20, 100]

'''

for n in num\_list:

cubes = ((n\*(n+1))//2)\*\*2

print (cubes)

# while loop

num\_list = [10]

while num\_list < 3:

n = num\_liost[0]

cubes = ((n\*(n+1))//2)\*\*2

print (cubes)

'''

This program will ask the user to input a word and then

calculate the words scrabble word score.

'''

# Scrabble word dictionary with scores for letters

scrabble\_score = { "a" : 1,

"b" : 3,

"c" : 3,

"d" : 2,

"e" : 1,

"f" : 4,

"g" : 2,

"h" : 4,

"i" : 1,

"j" : 8,

"k" : 5,

"l" : 1,

"m" : 3,

"n" : 1,

"o" : 1,

"p" : 3,

"q" : 10,

"r" : 1,

"s" : 1,

"t" : 1,

"u" : 1,

"v" : 4,

"w" : 4,

"x" : 8,

"y" : 4,

"z" : 10,

}

def word\_score(word):

word = word.lower()

score = []

for i in range(len(word)):

a = scrabble\_score[word[i]]

score.append(a)

total = sum(score)

print(total)

word = input("Enter a word: ")

word\_score(word)