**Write a python program to find sum of digits**

n=int(input("Enter a number:"))

tot=0

while(n>0):

dig=n%10

tot=tot+dig

n=n//10

print("The total sum of digits is:",tot)

**Program to append one file into other**

name1 = input("Enter file to be read from: ")

name2 = input("Enter file to be appended to: ")

fin = open(name1, "r")

data2 = fin.read()

fin.close()

fout = open(name2, "a")

fout.write(data2)

fout.close()

**write a program in Python to change a given string to a new string where the first &amp; last**

**characters have been changed.**

def change\_sring(str1):

return str1[-1:] + str1[1:-1] + str1[:1]

**Write a Python program to convert list to dictionary.**

def Convert(lst):

    res\_dct = {lst[i]: lst[i + 1] for i in range(0, len(lst), 2)}

    return res\_dct

lst = ['a', 1, 'b', 2, 'c', 3]

print(Convert(lst))

**Write a python program to find the sum of tuple elements.**

def summation(test\_tup):

  # converting into list

    test = list(test\_tup)

     # initializing count

    count = 0

     # for loop

    for i in test:

        count += i

    return count

# initializing test\_tup

test\_tup = (5, 20, 3, 7, 6, 8)

print(summation(test\_tup))

**Write a python program to check whether the string is Symmetrical or Palindrome**

# palin function to check whether string palindrome or not

def palin(string):

# declare and initialize with the starting and ending indexes

st = 0

end = len(string)-1

f = 0

# loop comparing letters moving from start to end and from end to start

while(st<end):

if (string[st]== string[end]):

st += 1

end -= 1

else:

f = 1

break;

# if loop with f as condition

if f == 0:

print("The entered string is palindrome")

else:

print("The entered string is not palindrome")

# symm function to check string symmetrical or not

def symm(string):

l = len(string)

flag = 0

# to check length of string even or odd

# to calculate middle value accordingly

if l%2 == 0:

mid = l//2 # for even length

else:

mid = l//2 + 1 # for odd length

s1 = 0 # starting for first portion of string

s2 = mid # starting for rest portion of string after middle value

while(s1 < mid and s2 < l):

# comparing from start of both portions of given string

if (string[s1] == string[s2]):

s1 = s1 + 1

s2 = s2 + 1

else:

flag = 1

break

if flag == 0:

print("The entered string is symmetrical")

else:

print("The entered string is not symmetrical")

# Main code

string = input("Enter the string: ")

palin(string)

symm(string)

**Write a python program to Reverse words in a given String**

## initializing the string

string = "I am a python programmer"

## splitting the string on space

words = string.split()

## reversing the words using reversed() function

words = list(reversed(words))

## joining the words and printing

print(" ".join(words))

or

def reverse\_string\_words(text):

for line in text.split('\n'):

return(' '.join(line.split()[::-1]))

print(reverse\_string\_words("The quick brown fox jumps over the lazy dog."))

print(reverse\_string\_words("Python Exercises."))

**Write a python program to remove i’th character from string in different ways**

def remove\_char(s, i):

a = s[ : i]

b = s[i + 1: ]

return a+b

string = "Pythonisgood"

# Remove ith index element

i = 5

print(remove\_char(string,i-1))

**or**

def remove\_char(s, i):

for j in range(len(s)):

if j==i:

s=s.replace(s[i],"",1)

return s

string = "Welcome"

# Remove i-th index element

i = 2

print(remove\_char(string,i-1))

**or**

# Initializing String

test\_str = "Teststring"

# Removing char at pos 3

# using slice + concatenation

new\_str = test\_str[:2] + test\_str[3:]

# Printing string after removal

# removes ele. at 3rd index

print ("The string after removal of i'th character : " + new\_str)

**Write a Python function to find the Max of three numbers.**

def maximum(a, b, c):

    if (a >= b) and (a >= c):

        largest = a

    elif (b >= a) and (b >= c):

        largest = b

    else:

        largest = c

    return largest

**Write a Python function to sum all the numbers in a list.**

def sum(numbers):

total = 0

for x in numbers:

total += x

return total

**Write a Python program to reverse a string.**

def reverse(s):

    str = ""

    for i in s:

        str = i + str

    return str

s = "Teststring"

print("The original string is : ", end="")

print(s)

print("The reversed string(using loops) is : ", end="")

print(reverse(s))

**or**

**Using recursion**

def reverse(s):

    if len(s) == 0:

        return s

    else:

        return reverse(s[1:]) + s[0]

s = "TestString"

print("The original string is : ", end="")

print(s)

print("The reversed string(using recursion) is : ", end="")

print(reverse(s))

**Write a Python program to demonstrate the zero division error and overflow error.**

n=int(input("Enter the value of n:"))

d=int(input("Enter the value of d:"))

c=int(input("Enter the value of c:"))

try:

q=n/(d-c)

print("Quotient:",q)

except ZeroDivisionError:

print("Division by Zero!")

**Write a Python program to match a string that contains only upper and lowercase letters,**

**numbers, and underscores.**

import re

def text\_match(text):

patterns = '^[a-zA-Z0-9\_]\*$'

if re.search(patterns, text):

return 'Found a match!'

else:

return('Not matched!')

print(text\_match("The quick brown fox jumps over the lazy dog."))

print(text\_match("Python\_Exercises\_1"))

**Write a python Program to Remove duplicate words from Sentence**

def unique\_list(text\_str):

l = text\_str.split()

temp = []

for x in l:

if x not in temp:

temp.append(x)

return ' '.join(temp)

text\_str = "Python Exercises Practice Solution Exercises"

print("Original String:")

print(text\_str)

print("\nAfter removing duplicate words from the said string:")

print(unique\_list(text\_str))

**Write a Python program to read an entire text file.**

def file\_read(fname):

txt = open(fname)

print(txt.read())

file\_read('test.txt')

**Write a Python program to print each line of a file in reverse order.**

print("Enter the Name of File: ")

fileName = input()

fileHandle = open(fileName, "r")

fileContent = ""

for content in fileHandle:

fileContent = fileContent+content

print("\n----Content in Reverse Order----")

fileContent = fileContent[::-1]

print(fileContent)

**Write a Python program to print date, time for today and now.**

import datetime

now = datetime.datetime.now()

print ("Current date and time : ")

print (now.strftime("%Y-%m-%d %H:%M:%S"))

**Write a Python script to generate and print a dictionary that contains a number (between 1 and n) in the form (x, x\*x).**

number = int(input("Please enter the Maximum Number : "))

myDict = {}

for x in range(1, number + 1):

myDict[x] = x \* x

print("\nDictionary = ", myDict)