**Write a Python program that checks if a string is a palindrome or not.**

my\_str = input("Enter string:")  
  
my\_str = my\_str.casefold()  
  
rev\_str = reversed(my\_str)  
  
if list(my\_str) == list(rev\_str):  
 print("The string is a palindrome.")  
else:  
 print("The string is not a palindrome.")

**Write a Python program that reads the email-id of a person in the form of a string and ensure that it belongs to the domain @google.com.**

s = input('Enter Mail ID: ')  
if s.endswith('@google.com'):  
 print(s,'belongs to the domain @google.com.')  
else:  
 print(s, 'does not belong to the domain @google.com.')

import re  
  
regexStr = r'^([^@]+)@[^@]+$'  
emailStr = input('Enter Email:')  
mail = re.search(regexStr, emailStr)  
if mail :  
 print ("Valid Email")  
else:  
 print ("Invalid Email")

**Write a Python program that reads a string and displays the longest substring of the given string having just consonants.**

str1 = input("Please Enter Your Own String : ")  
vowels = 0  
consonants = 0  
str1.lower()  
  
for i in str1:  
 if(i == 'a' or i == 'e' or i == 'i' or i == 'o' or i == 'u'):  
 vowels = vowels + 1  
 else:  
 consonants = consonants + 1  
print("Total Number of Consonants in this String = ", consonants)

**Write a Python program that prompts for a phone number of digits and two dashes, with dashes after -the area code and the next three numbers. For example, 017-555-1512 is a legal input. Display if the phone number entered is in valid format or not.**

p = input('Enter Phone Number : ')  
  
if len(p) == 12 and p[3] == "-" and p[7] == "-" :  
 print(p, "is valid")  
else:  
 print(p, "is invalid")

**Write a program that**

**\* Prompts the user for a string.**

**\* Extracts all the digits from the string.**

**\* If there are digits print – the original string, the digits and the sum of the digits.**

**\* If there are no digits, print the original string and a message “ has no digits”.**

x = input('Enter a anything: ')  
y = ''  
z = 0  
for i in x:  
 if i.isdigit():  
 y += i  
 z += int(i)  
if len(y) > 0:  
 print('The digits are',y, 'and the sum of the digits in', x, 'is', z)  
else:  
 print('The input',x,'has no digits')

import functools  
def solve(s):  
 return functools.reduce(lambda x, y: x + int(y),[y for y in s if y.isdigit()],0)  
print(solve(input('Enter String:')))

**Write a Python program that reads a string from the user and prints the percentage of characters that are alphanumeric and also swaps the case of all the characters present in the string.**

x = input('Enter anything: ')  
y = 0  
for i in x:  
 if i.isalnum():  
 y += 1  
print(y\*100/len(x),'percent of',x.swapcase(),'is aplhanumeric')

**Write a program that reads two strings and prints it in the following format.**

**String 1**

**S            2**

**T        G**

**R    N**

**I**

x = input('Enter a string: ').capitalize()  
y = input('Enter a string: ').upper()  
z = len(y)  
print(x)  
for i in range(1, len(y) + 1):  
 print(' '\*(i-1)+y[i-1]+' '\*(len(y)-2\*i)+y[0-i])  
 z -= 2  
 if z < 3:  
 if len(y) % 2 != 0:  
 print(' ' \* (len(y) // 2) + y[len(y) // 2])  
 break  
 else:  
 print(' ' \* ((len(y) // 2) - 1) + y[len(y) // 2 - 1]+y[len(y) // 2])  
 break

**Write a Python program that reads a string and an integer and prints the sum of the digits extracted from the string and the integer entered. If string contains no digits, then the sum of the digits of the string should be taken as 0.**

x = input('Enter a string: ')  
y = int(input('Enter a digit: '))  
z = 0 + y  
z1 = ''  
for i in x:  
 if i.isdigit():  
 z += int(i)  
 z1 += i  
print('The sum of the digits in the string and the integer is',z)

**Write a Python program that reads two strings and prints the string that appears first in the dictionary.**

x = input('Enter a string: ')  
y = input('Enter a string: ')  
print(x) if x>=y else print(y)