# Actividad Previa 1<sup>a</sup> Parte Tema 5

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VJ1203 - Programación 1

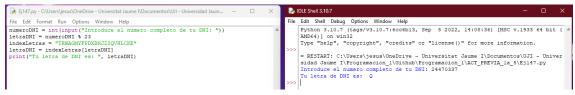
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Diseña un programa que lea de teclado un número de DNI y muestre en pantalla la letra que le corresponde.

```
numeroDNI = int(input("Introduce el numero completo de tu DNI: "))
letraDNI = numeroDNI % 23
indexLetras = "TRWAGMYFPDXBNJZSQVHLCKE"
letraDNI = indexLetras[letraDNI]
print("Tu letra de DNI es: ", letraDNI)
```





Intentamos mostrar los caracteres de la cadena en orden inverso así: ¿Funciona?

```
a = 'mi cadena'
for i in range (len(a)-1, -1, -1):
    print(a[i])

# Si que funciona
```

```
## File Edit Format Run Options Window Help

a = 'mi cadena'
for in range (len(a)-1, -1, -1):
    print(a[i])

# Si que funciona

## Window Help

## Si que funciona

## Python 31.0.7 (teags/v3.10.7;6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1833 64 bit ( a AMD64)] on winsz

## Type "help", "copyright", "credits" or "license()" for more information.

## SETART: C:Users\jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\Jesus\
```



Diseña un programa que lea una cadena y muestre el número de letras mayúsculas que contiene.

```
cadena = 'Foot Stealth [Build-Up Mix] [Bully]'
for i in range(len(cadena)):
   if cadena[i].isupper():
       print(i, cadena[i])
```

```
| DLE Shell 3.107 | Shell 5.107 | Shell 5.10
```



¿Funciona el programa cuando introducimos una cadena formada solo por espacios en blanco? ¿Por qué? SI su comportamiento no te parece normal, corrígelo:

```
cadena = input('Escribe una frase: ')
while cadena != '':
    cambios = 0
    anterior = ' '
    for caracter in cadena:
        if caracter == ' ' and anterior != ' ':
            cambios += 1
        anterior = caracter

if cadena [-1] == ' ':
        cambios -= 1

palabras = cambios + 1
print('Palabras: ', palabras)

cadena = input('Escribe una frase: ')

# El programa funciona perfectamente
```

```
### Files Edit Format Run Options Window Help

| File Edit Format Run Options Window Help
| Cadena = Injunt("Escribe una frase: ')
| White cadena | Enjunt("Escribe una frase: ')
| White cadena | Enjunt("Escribe una frase: ')
| White cadena | Enjunt("Escribe una frase: ')
| Cambica = 0
| anterior = ' ' ' and anterior != ' ':
| Cambica = 0 | anterior = caracter | anterior = caracter | anterior = caracter |
| if cadena [-1] == ' ':
| cambica = 1 |
| palabras = cambica + 1 |
| print("Escribe una frase: ')
| palabras: ', palabras' |
| cadena = inpunt("Escribe una frase: ')
| if the programs functions perfectamente

| if cadena frase: |
| palabras: ', palabras' |
| cadena = inpunt("Escribe una frase: ')
| if the programs functions perfectamente

| if cadena frase: |
| palabras: ', palabras' |
| cadena = inpunt("Escribe una frase: ')
| if the file Shell Debug Options Window Help
| Sypton 3.10.7 (cags/v3.10.7:6cc6bla, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit ( AMD64) on vin32 |
| Sypton 3.10.7 (cags/v3.10.7:6cc6bla, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit ( AMD64) on vin32 |
| Type "help", "copyright", "credits" or "license()" for more information.
| ** **RESTART: G.1 Wasera) esua VoneDrive - Universitat Jaume 1/Documentoa(VJI - Universitat Jaume 1/Documen
```



Hay un tipo de pasatiempos que propone descifrar un texto del que se han suprimido las vocales. Por ejemplo, el texto «. n . j .mpl. d. p. s. t. .mp.s», se descifra sustituyendo cada punto con una vocal del texto. La solución es «un ejemplo de pasatiempos». Diseña un programa que ayude al creador de pasatiempos. El programa recibirá una cadena y mostrará otra en la que cada vocal ha sido reemplazada por un punto.:

```
cadenaInput = input("Introduce una frase: ")

for caracter in range(len(cadenaInput)):
    if cadenaInput[caracter] == 'a':
        cadenaInput = cadenaInput.replace('a', '.')
    elif cadenaInput[caracter] == 'e':
        cadenaInput = cadenaInput.replace('e', '.')
    elif cadenaInput[caracter] == 'i':
        cadenaInput = cadenaInput.replace('i', '.')
    elif cadenaInput[caracter] == 'o':
        cadenaInput = cadenaInput.replace('o', '.')
    elif cadenaInput[caracter] == 'u':
        cadenaInput = cadenaInput.replace('u', '.')

print(cadenaInput)
```

```
### Edit Format Run Options Window Help

cadenaInput = input("Introduce una frase: ")

file Edit Format Run Options Window Help

cadenaInput = input("Introduce una frase: ")

for caracter in range(len(cadenaInput)):
    if cadenaInput(caracter) = "a:"
        cadenaInput = cadenaInput.replace('a', '.')
    elif cadenaInput = cadenaInput.replace('a', '.')
    cadenaInput = cadenaInput.re
```



Diseña un programa que, dada una cadena, muestre por pantalla todos sus prefijos.

```
input = str(input("Introduce una frase: "))
cadena = ''

for character in range(len(input)):
    cadena += input[character]
    print(cadena)
```

```
| Section | Section | Colorador | Colorado
```

