

Tarea 2

Explicación del algoritmo: Este algoritmo nos permite mover cada letra un determinado número de espacios en el alfabeto para así conseguir descifrar el mensaje con una llave que será el numero de posiciones en el alfabeto.

Codigo:

```
def descifraCesar(cad, Llave):
    alfabeto = "abcdefghijklmnopqrstuvwxyz"
    descifrado = ""
    for c in cad:
        if (c in alfabeto ):
            pos = alfabeto.find(c)
            descifrado = descifrado + alfabeto[ (pos - Llave) % 26 ]
        else:
            descifrado = descifrado + c
    return descifrado

def cargaDic(nombre):
    arch = open(nombre, 'r')
    texto = arch.read()
    arch.close()
    dic1 = texto.split()
    return dic1

def cargaCifrado():
    archivo = open('textoCifrado.txt', 'r')
    renglon = archivo.readline()
    return renglon

def getAciertos( cadena, dic1 ):
    aciertos = 0
    palabras = cadena.split()
    for c in palabras:
        if c in dic1:
            aciertos += 1
    return aciertos

cifrado = cargaCifrado()
dic1 = cargaDic("words.txt")
maxAciertos = 0
mejorLlave = 0
for c in range(26):
```

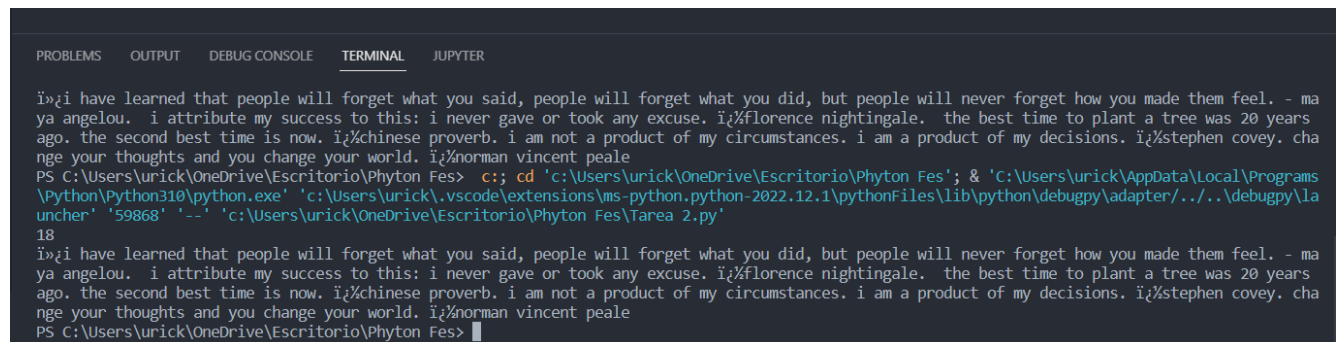
```

    texto = descifraCesar(cifrado, c)
    calif = getAciertos(texto,dic1)
    if (calif > maxAciertos):
        maxAciertos = calif
        mejorLlave = c

print(mejorLlave)
print(descifraCesar(cifrado, mejorLlave))

```

Capturas de la ejecución:



```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  JUPYTER

i»¿i have learned that people will forget what you said, people will forget what you did, but people will never forget how you made them feel. - ma
ya angelou. i attribute my success to this: i never gave or took any excuse. ¿florence nightingale. the best time to plant a tree was 20 years
ago. the second best time is now. ¿chinese proverb. i am not a product of my circumstances. i am a product of my decisions. ¿stephen covey. cha
nge your thoughts and you change your world. ¿norman vincent peale
PS C:\Users\urick\OneDrive\Escritorio\Phyton Fes> c:: cd 'c:\Users\urick\OneDrive\Escritorio\Phyton Fes'; & 'c:\Users\urick\AppData\Local\Programs
\Python\Python310\python.exe' 'c:\Users\urick\.vscode\extensions\ms-python.python-2022.12.1\pythonFiles\lib\python\debugpy\adapter/../..debugpy\la
uncher' '59868' '--' 'c:\Users\urick\OneDrive\Escritorio\Phyton Fes\Tarea 2.py'
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