2022-02-23 - Implementación de one time pad

Cifrado y descifrado

Cadenas

```
def main():
   vector = "Amado Garcia was here"
    encrypted = encrypt(vector)
   decrypted = decrypt(encrypted[0], encrypted[1])
   print("Test Vector: " + vector)
   print("OTP: " + encrypted[0])
   print("Encrypted: " + encrypted[1])
print("Decrypted: " + decrypted)
def encrypt(plaintext):
     """Encrypt plaintext value.
    Keyword arguments:
   plaintext -- the plaintext value to encrypt.
   otp = "".join(random.sample(charset, len(charset)))
   result =
    for c in plaintext.upper():
       if c not in otp:
           continue
       else:
            result += otp[charset.find(c)]
    return otp, result
def decrypt(otp, secret):
    """Decrypt secret value.
    Keyword arguments:
   otp -- the one-time pad used when the secret value was encrypted.
    secret -- the value to be decrypted.
    for c in secret.upper():
       if c not in otp:
            continue
            result += charset[otp.find(c)]
    return result
if __name__ == "__main__":
    main()
```

Test Vector: Amado Garcia was here OTP: S5D8NQVOAY42I76XLK301CPFETJ9WBGMRHZU

Encrypted: SIS86VSKDASPS3ONKN
Decrypted: AMADOGARCIAWASHERE

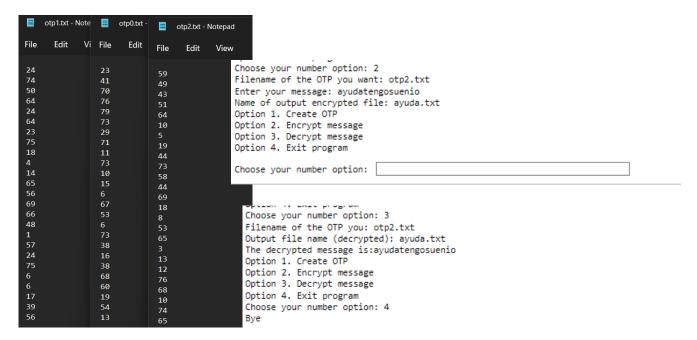
```
def main():
   vector = "Me Muero de sueenio"
   encrypted = encrypt(vector)
   decrypted = decrypt(encrypted[0], encrypted[1])
   print("Test Vector: " + vector)
   print("OTP: " + encrypted[0])
   print("Encrypted: " + encrypted[1])
print("Decrypted: " + decrypted)
def encrypt(plaintext):
    """Encrypt plaintext value.
   Keyword arguments:
   plaintext -- the plaintext value to encrypt.
   otp = "".join(random.sample(charset, len(charset)))
    result = "
    for c in plaintext.upper():
       if c not in otp:
           continue
        else:
           result += otp[charset.find(c)]
    return otp, result
def decrypt(otp, secret):
    """Decrypt secret value.
   Keyword arguments:
   otp -- the one-time pad used when the secret value was encrypted.
   secret -- the value to be decrypted.
   result = ""
    for c in secret.upper():
       if c not in otp:
           continue
        else:
            result += charset[otp.find(c)]
    return result
if __name__ == "__main__":
   main()
```

Test Vector: Me Muero de sueenio
OTP: OQ3UMAT6V1NI9W4YFH5G0RBSCLK2EPD7JZX8

Encrypted: 9M90MH4UM50MMWV4 Decrypted: MEMUERODESUEENIO

Archivos

```
else:
             print("Invalid option \n")
    menu()
    4
    Option 1. Create OTP
    Option 2. Encrypt message
    Option 3. Decrypt message
                                                             ipynb_checkpoints
    Option 4. Exit program
                                                            OTP.ipynb
    Choose your number option:
                                                            otp0.txt
                                                             otp1.txt
How many OTP do you want 10
                                                             otp2.txt
Maximum message length 50
                                                             otp3.txt
Option 1. Create OTP
```



ayuda.txt
OTP.ipynb
otp0.txt