Program for encrypting messege

How it works

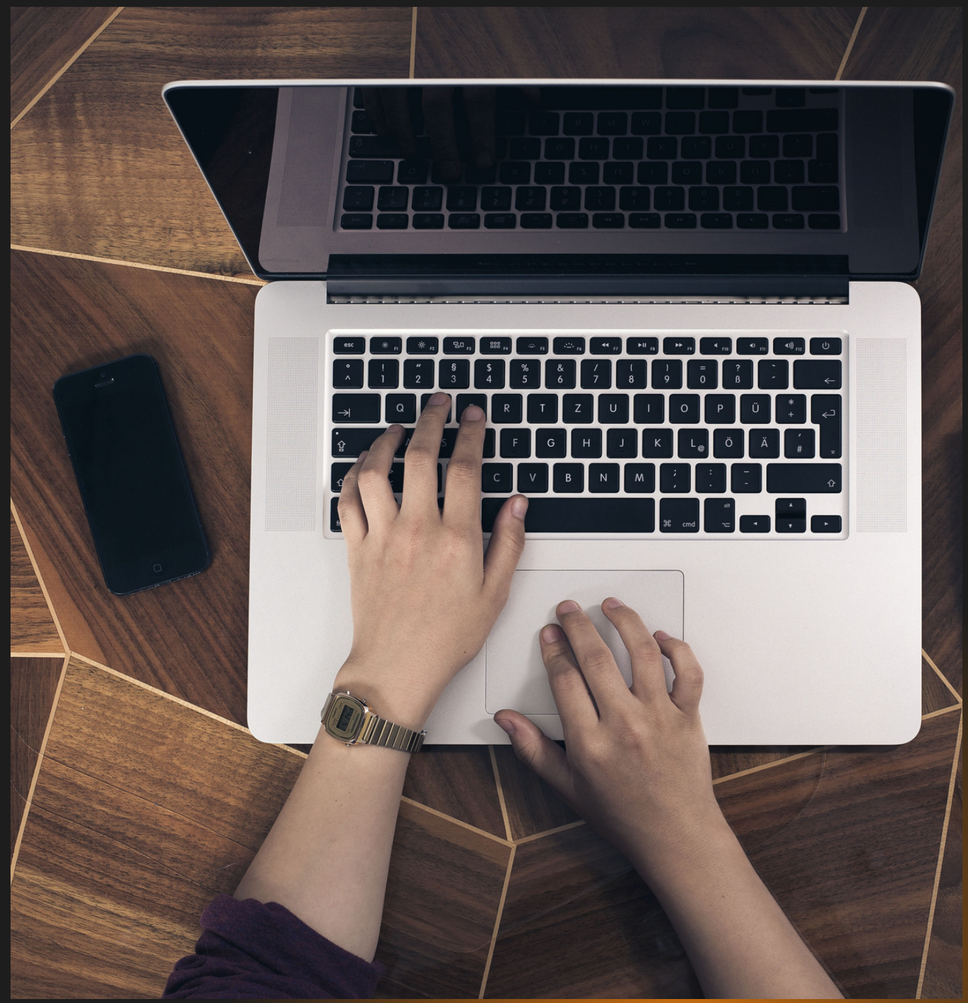
→

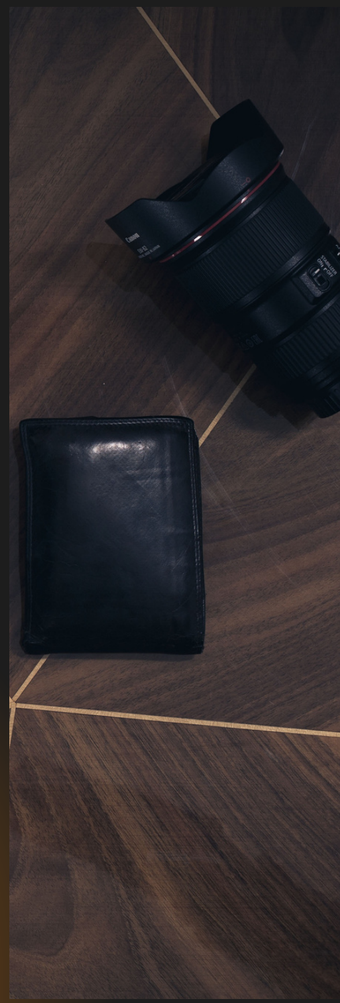
Made by students of Com 21-A
Dovlyat and Kutman

Libraries

- Cryptography.fernet

Generate key function





Discription of the code

scketch 2 | box3.7.py 1

C: > Users > admin > Downloads > box3.7.py > ...

```python
from cryptography.fernet import Fernet #Fernet is an implementation of symmetric authenticated cryptography

def write_key(): #generating that key and write it to a file

    key = Fernet.generate_key() #generate_key() function generates a fresh fernet key, you really need to keep this in a safe place, if you lose the ke
    with open("key.key", "wb") as key_file:
        key_file.write(key)

def load_key(): #Since this key is unique, we won't be generating the key each time we encrypt anything, so we need a function to load that key for us

    return open("key.key", "rb").read()

write_key()#Generating and writing the key to a file
key = load_key()#Let's load that key
message = "Davlyat and Kutman".encode()#Some message
f = Fernet(key)#We need to encode strings, to convert them to bytes to be suitable for encryption, encode() method encodes that string using utf-8 code
encrypted = f.encrypt(message)#Encrypting the message
print(encrypted)
decrypted_encrypted = f.decrypt(encrypted)#Decrypting that
print(decrypted_encrypted)
```

Original messege

Davlyat and Kutman

Encrypted messege

gAAAAABiivwyGfpmY7q8msHilagImgpAgQqrLZToWT2DdPAJThUKxUoholkcjyrN
7fg_F7DxUXonh71yzGSgeT_DmekKYs8Zk9afaemxjMYB6tB-FQws=