

In [1]: `!pip install PyCryptodome`

Requirement already satisfied: PyCryptodome in c:\users\vishal tanawade\appdata\local\programs\python\python310\lib\site-packages (3.14.1)

WARNING: You are using pip version 22.0.4; however, version 22.1 is available.

You should consider upgrading via the 'C:\Users\Vishal Tanawade\AppData\Local\Programs\Python\Python310\python.exe -m pip install --upgrade pip' command.

In [2]: `from Crypto.Cipher import AES
from secrets import token_bytes`

In [4]: `key = token_bytes(16)`

In [13]: `def encrypt(msg):

 """In cryptography, a nonce (number once) is an arbitrary number
 can be used just once in a cryptographic communicationIn cryptogr
 sometimes known as a tag, is a short piece of information used to
 """

 cipher = AES.new(key,AES.MODE_EAX)
 nonce = cipher.nonce
 ciphertext,tag = cipher.encrypt_and_digest(msg.encode('ascii'))
 return nonce,ciphertext,tag`

In [14]: `def decrypt(nonce,ciphertext,tag):
 cipher = AES.new(key,AES.MODE_EAX,nonce = nonce)
 plaintext = cipher.decrypt(ciphertext)

 try:
 cipher.verify(tag)
 return plaintext.decode('ascii')
 except:
 return False`

In [15]: `nonce,ciphertext,tag = encrypt(input("Enter a message: "))
plaintext = decrypt(nonce,ciphertext,tag)

print("Cipher text: ", ciphertext)

if not plaintext:
 print('Message is corrupted!!!')
else:
 print("Plain text: ", plaintext)`

Enter a message: Vishal tanawade

Cipher text: b'w4{\x00\xa0\xad\x00i\x1b\xba\xc5:\xca"['

Plain text: Vishal tanawade

In []:

Loading [MathJax]/extensions/Safe.js