In [1]:
```python
!pip install PyCryptodome
```

Requirement already satisfied: PyCryptodome in c:\users\vishal tanaw
ade\appdata\local\programs\python\python310\lib\site-packages (3.14.
1)

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

In [3]:
```python
key = token_bytes(8)
```

In [4]:
```python
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 = DES.new(key,DES.MODE_EAX)
    nonce = cipher.nonce
    ciphertext,tag = cipher.encrypt_and_digest(msg.encode('ascii'))
    return nonce,ciphertext,tag
```

In [5]:
```python
def decrypt(nonce,ciphertext,tag):
    cipher = DES.new(key,DES.MODE_EAX,nonce=nonce)
    plaintext = cipher.decrypt(ciphertext)

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

In [6]:
```python
nonce,ciphertext,tag = encrypt(input("Enter a message: "))
plaintext = decrypt(nonce,ciphertext,tag)

print(f'Cipher text: {ciphertext}')

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

Enter a message: Vishal Tanawade
Cipher text: b"W\x89\xec}K\xc8'\xf6\xeeR\xac.\xd7B,"
Plain text: Vishal Tanawade

In [ ]: