**45.How to encrypt and decrypt the text using MultiFernet module in python?**

**Objective:**

* To see the encryption and decryption of a given text message using MultiFernet module in python.

**Process:**

* **Fernet (symmetric encryption):**

Fernet guarantees that a message encrypted using it cannot be manipulated or read without the key.

Its imported from cryptography library in python.

Its implementation of symmetric authenticated cryptography (also known as secret key).

**Input:**

* Simple message text.

**Output:**

* Actual message
* Encrypted message
* Original message after decryption.

**Source code:**

#import Fernet and MultiFernet

from cryptography.fernet import Fernet, MultiFernet

#Generate MultiFernet key

key1 = Fernet(Fernet.generate\_key())

key2 = Fernet(Fernet.generate\_key())

Multikey = MultiFernet([key1, key2])

print("Actual message is:FirstSoft Technologies Pvt Ltd")

print("\n")

#Encrypt the message

encode = Multikey.encrypt(b"FirstSoft Technologies Pvt Ltd")

print("The encrypted message is:\n",encode)

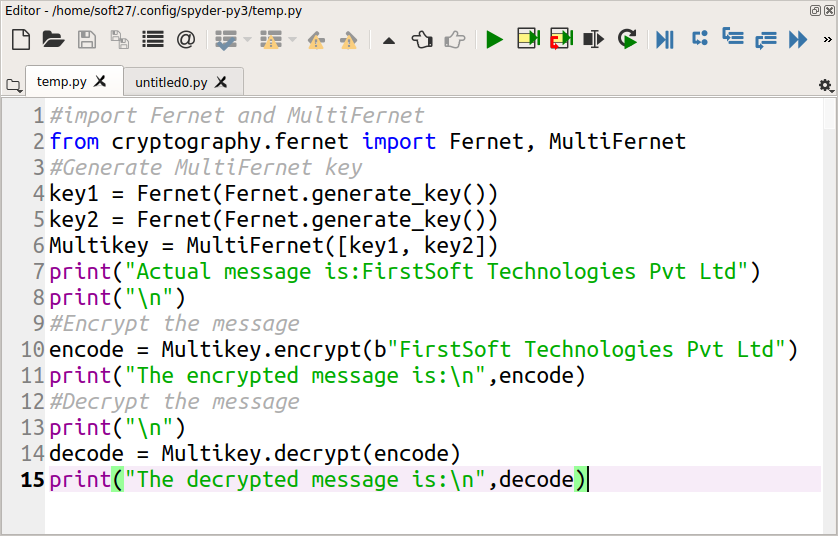
#Decrypt the message

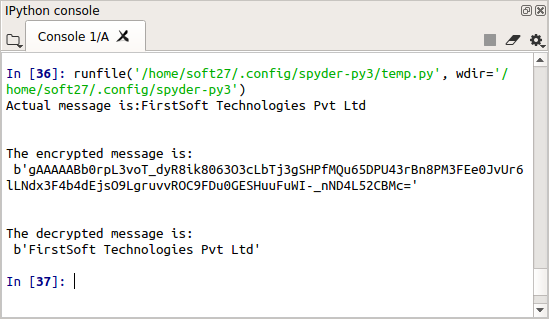
print("\n")

decode = Multikey.decrypt(encode)

print("The decrypted message is:\n",decode)

**Screen shots:**

****

****