**44.How to encrypt and decrypt the text using AES in python?**

**Objective:**

* To see how to do simple encryption and decryption of given text message using AES.

**Process:**

* Get the input message text.
* In AES the same key used for both encryption and decryption.
* Generate the secret key.
* Define the mode of AES.
* Encrypt the message using cipher.encrypt().
* Decrypt the message using cipher.decrypt().

**Input:**

* Simple text message.

**Output:**

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

**Source code:**

#import crypto and base64

from Crypto.Cipher import AES

import base64

message = 'FirstSoft Technologies Pvt Ltd'.rjust(32)

print("Actual message is\n",message)

secret\_key = '1234589648789658'

#define AES mode

cipher = AES.new(secret\_key,AES.MODE\_ECB)

#encode the messgae text

encryption = base64.b64encode(cipher.encrypt(message))

print("\n")

#print the encoded message

print("The encrypted message is\n",encryption)

#decode the message

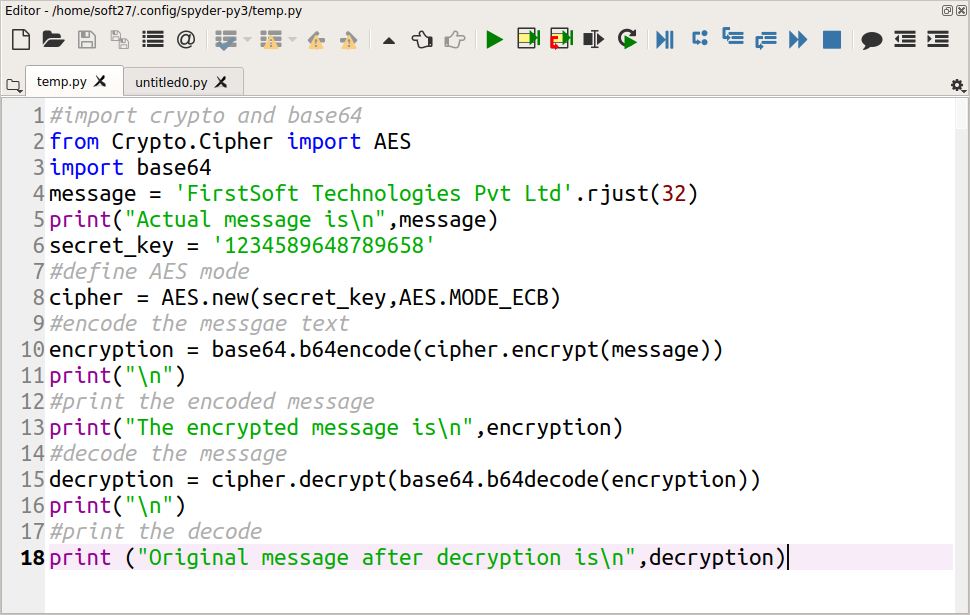
decryption = cipher.decrypt(base64.b64decode(encryption))

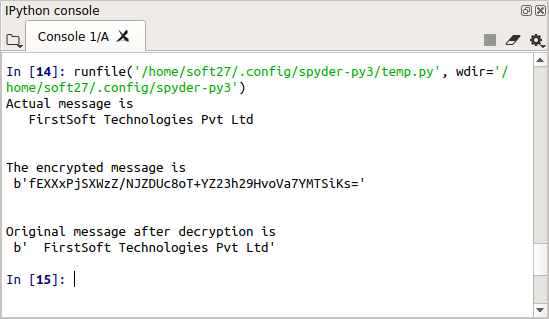
print("\n")

#print the decode

print ("Original message after decryption is\n",decryption)

**Screen shot:**

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