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**Sub : Python Programming**

**Sem : 7th**

**Branch : Computer Engineering**

**Practical 12 :**

**Write a python program to implement classical cipher**

**Solution :**

print(**"\_\_\_\_\_\_\_CLASSICAL CEASER CIPHER\_\_\_\_\_\_\_\_"**)  
def encrypt(text,key):  
 result = **""** for i in range(len(text)):  
 char = text[i]  
 if char.isupper():  
 result += chr((ord(char) + key-65) % 26 + 65)  
 else:  
 result += chr((ord(char) + key - 97) % 26 + 97)  
 return result  
  
def decrypt(cipher\_text, key):  
 plain\_text = **""** for i in range(len(cipher\_text)):  
 char = cipher\_text[i]  
 if char.isupper():  
 plain\_text += chr((ord(char) - key -65) % 26 + 65)  
 else:  
 plain\_text += chr((ord(char) - key - 97) % 26 + 97)  
 return plain\_text  
  
text = input(**"Enter Message : "**)  
key = int(input(**"Enter Key : "**))  
print(**"Plain Text : "** + text)  
print(**"Encryption key : "** + str(key))  
print(**"**\n**ENCRYPTION**\n**"**)  
cipher\_text = encrypt(text,key)  
print(**"Cipher Text : "** + cipher\_text )  
print(**"**\n**DECRYPTION**\n**"**)  
plain\_text = decrypt(cipher\_text,key)  
print(**"Plain Text After Decryption : "** + plain\_text)

**Output** :

