≻ Vignere Cipher

Code:

```
def encrypt():
  plain=input('Enter your plain text: ')
  key=input('Enter the key: ')
  coun=0
  newk=key
  if len(key)<len(plain):
     while True:
       a=coun%len(key)
       newk+=key[a]
       if len(newk)==len(plain):
          break
       else:
          coun+=1
          continue
  cipher="
  11=['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p', 'q', 'r', 's', 't', 'u', 'v', 'w', 'x',
'y', 'z']
  for i in range(len(plain)):
     p=l1.index(plain[i])
     k=l1.index(newk[i])
     cipher+=11[(p+k)\%26]
  autok=key
  autok+=plain[0:len(plain)-len(key)]
  autocipher="
  for i in range(len(plain)):
     ap=l1.index(plain[i])
     ak=11.index(autok[i])
```

```
autocipher+=l1[(ap+ak)%26]
  print(f'Encrypted text from key extending key: {cipher}')
  print(f'Encrypted text from key auto key: {autocipher}')
def decrypt():
  plain=input('Enter your cipher text: ')
  key=input('Enter the key: ')
  coun=0
  newk=key
  if len(key)<len(plain):
     while True:
       a=coun%len(key)
       newk+=key[a]
       if len(newk)==len(plain):
          break
       else:
          coun+=1
          continue
  cipher="
  11=['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p', 'q', 'r', 's', 't', 'u', 'v', 'w', 'x',
'y', 'z']
  for i in range(len(plain)):
     p=l1.index(plain[i])
     k=l1.index(newk[i])
     cipher + = 11[(p-k)\%26]
  print(f'Decrypted text from key extending key: {cipher}')
```

OUTPUT:

```
In [38]: encrypt()

Enter your plain text: mynameistejas

Enter the key: tejas
Encrypted text from key extending key: fcwaexmbtwceb
Encrypted text from key auto key: fcwaeqgftqnik

In [39]: decrypt()

Enter your cipher text: fcwaexmbtwceb

Enter the key: tejas
Decrypted text from key extending key: mynameistejas

In [40]: |
```