

▼ Vegenere Cipher

```
str1 = "GEEKSFORGEEKS"
keyword = "MAYUR"
```

```
def genkey(str1, key):
    key = list(key)
    if len(str1) == len(key):
        return(key)
    else:
        for i in range(len(str1)- len(key)):
            key.append(key[i%len(key)])
        return("".join(key))
```

```
key = genkey(str1, keyword)
print(key)
```

 MAYURMAYURMAY

+ Code

+ Text

```
def encrypt_cipher(str1, key1):
    cipher_text = []
    for i in range(len(str1)):
        x = ((ord(str1[i])+ord(key1[i]))%26) + ord('A'))
        cipher_text.append(chr(x))
    return("".join(cipher_text))
```

```
print("OG MESSAGE : ", str1)
print("KEYWORD : ", keyword)
cipher_text = encrypt_cipher(str1, key)
print("CIPHERTEXT : ", cipher_text)
```

```
OG MESSAGE :  GEEKSFORGEEKS
KEYWORD :  MAYUR
CIPHERTEXT :  SECEJROPAVQKQ
```

```
def decrypt_cipher(cipher_text, keyword):
    orig_text = []
    for i in range(len(cipher_text)):
        x = ((ord(cipher_text[i]) - ord(keyword[i]))%26) + ord('A'))
        orig_text.append(chr(x))
    return("".join(orig_text))
```

```
og = decrypt_cipher(cipher_text,keyword)
```

```
og
```

'GEEKSFORGEEKS '

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