	Variety of the second
line no., p = 17.	ability ours and make
Rimits and a = 5.	6 4 1 : 6 d gard
Riverte ley of Alice, a=4	((a,a))
Circate by of dato, b=6.	
PUBLIC KEU OF ALICE & = 9 mod p	ally to remoterate a
3 54 mad 17	allowing to the same of the same of
$-\frac{1}{2}c=13$	bus when it is
-7c=13	a come in a summer
The same of the sa	
Public Key OF BOB: y = 9 modp	THE STATE OF THE PARTY OF THE P
y = 56 mad 17	ed was up to save
W = 2	
$\sqrt{=}$	in and
SECRET KEY OF ALICE: y mad p.	
SECRET KEY OF ALICE: 4 MOOD	54 44 82 48
74 16 mod 17	a la Labora April
-7-16	
Thomas Deck Manager ist	Than I we take
SECRET KEY OF BOBY of made.	SECRET KEY = 16
-) 13 6 mad 17	
> Kn = 16	19.15.4
7 6 - 10	

```
CIPHER:
 ENCRYPTION FOR VICENERE
String = "GEEKS FOR GEEKS"
Keyword = "SIDHARTH"
det generate Key (string, Key):
       Key = list (key)
       if len (string) == len (key):
              return Key
          for i in range (ren(string) - len(key)).
           Key. append ( Key [iy. len ( Key ) 7)
        return (" ". join (key))
  det enerypt_ciphertext (string, key):
          cipher = []
          for i in range (len (string)):
              x = ((ord(string[i]) + ord (key[i]))/.26) + ord ('A')
cipher-append (chr(x))
           return ("".join (cipher))
    Key = generate Key (string, Keyword)
    print ("Original text:", string)
    print (" Key word:", Key word)
    cipher-text = enerypt-cipher text (string, Key)
     print ("Ciphertext:" cipher-text).
  OUTPUT
      Original message text GEEKS FOR GEEKS
      Keyword: SIDHARTH
      Ciphertext: YMURS WHYYMHRS
```

6

DECRYPT:	TON FOR VIGNERE CIPHER
cipherte	xt= "YMLARS WHYYMHRS"
Key wor	d = "SIDHARTH"
	erate key (ciphertext, key):
U	Key = list (Key)
	if len(string) == len (key):
	return key.
	else:
	for i in range (len (string) - len (key)):
	Key append (Key [i/len(key)])
	return (" "-join (Key))
	rypt-oxiginaltext (ciphertext, key) -
	prigtext = []
+	or i in range (len (aphertext)):
	x=f(ord (ciphertext[i] - ord (key[i]) ./. 26) + ord ('A')
	origlext.append (chr(+))
	eturn (") · join (origte+t))
	Ciphertext: ciphertext , Keyword)
-	
clular -	decrypt-original text (ciphertext, Key)
print (Original text: 1 string)
Print (Original territy of
Output:	
Cipherte:	xt: YMERS WHYYMHRS
	SIDHARTH.
	ext: GEEKS FOR GEEKS.

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