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Ans

```
def generated Key (string, key):
    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))


def Cipher Text (string, key):
    Cipher_text = [ ]

    for i in range (len (string)):
        x = (ord (string [i]) + ord (key [i])) % 26

        x += ord ('A')
```

```python
        Cipher_text.append (chr (x))
        return ("" . join (cipher_text))

def original Text (cipher_text, Key):
    x = (ord (cipher_text [i]) - ord (key[i] +26) % 26

    x += ord ('A')

    orig_text. append (chr (x))
        return ("" join (orig_text))


If __name__ == "__main__":

string = "Cryptography"
Keyword = "Monarchy"

Key = generate key (string, keyword)
cipher text = generate key cipherText (string, text)
print ("ciphertext", ciper_text)
    print ("original Text:" original Text (cipher_text, Key))
```