

```
import random
```

```
import string
```

```
chars = " " + string.whitespace + string.punctuation + string.digits + string.ascii_letters
```

```
chars = list(chars)
```

```
key = chars.copy()
```

```
random.shuffle(key)
```

```
print(f"chars: {chars}")
```

```
print(f"key : {key}")
```

```
#ENCRYPT
```

```
plain_text = input("Enter a message to encrypt: ")
```

```
cipher_text = ""
```

```
for letter in plain_text:
```

```
    index = chars.index(letter)
```

```
    cipher_text += key[index]
```

```
print(f"original message: {plain_text}")
```

```
print(f"encrypted message: {cipher_text}")
```

```
"C:\Users\Vanaja Asmath\AppData\Local\Programs\Python\Python312\python.exe" "C:\Users\Vanaja Asmath\PycharmProjects\pythonProject\vanaja.py"
```

```
chars: [' ', '\t', '\n', '\r', '\x0b', '\x0c', '!', '"', '#', '$', '%', '&', "'", '(', ')', '*', '+', ',', '-', '.', '/', ':', ';', '<', '=', '>', '?', '@', '[', '\\', ']', '^', '_', '`', '{', '|', '}', '~', '0', '1', '2', '3', '4', '5', '6', '7', '8', '9', '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', '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']

key : ['+', '1', '{', '^', '5', 'Y', 'b', '!', 'O', 'E', 'H', 'S', 'i', '\t', '~', 'Z', 'Q', '8', 'y', '6', 'L', '>', ')', 'B', 'W', 'R', '/', ''],
'u', '4', 'G', '\r', 'p', 'z', 'd', '\$', '0', ' ', '@', 'K', 'r', '""', 'F', '\x0c', '<', 'M', 'q', '_', '[', 'e', 'x', '|', '?', '\n', '-', '=',
'N', ' ', 'v', 'w', ',', '(', ':', 'X', 'D', 's', '"', 'n', '7', 'o', ':', 'A', '}', '\x0b', 'C', 'U', '2', 'f', 'k', '%', 'P', '!', 'l', 'j', '9', 'm',
'V', 'c', 't', '*', 'J', 'T', 'h', '\\', 'g', '3', 'a', ';', '&', 'l', '#']

Enter a message to encrypt: I LIKE SURE TRUST

original message: I LIKE SURE TRUST

encrypted message: j

original message: I LIKE SURE TRUST

encrypted message: j+

original message: I LIKE SURE TRUST

encrypted message: j+V

original message: I LIKE SURE TRUST

encrypted message: j+Vj

original message: I LIKE SURE TRUST

encrypted message: j+Vj m

original message: I LIKE SURE TRUST

encrypted message: j+Vj m%

original message: I LIKE SURE TRUST

encrypted message: j+Vj m%+

original message: I LIKE SURE TRUST

encrypted message: j+Vj m%+\

original message: I LIKE SURE TRUST

encrypted message: j+Vj m%+\3

original message: I LIKE SURE TRUST

encrypted message: j+Vj m%+\3h

original message: I LIKE SURE TRUST

encrypted message: j+Vjm%+\3h%

original message: I LIKE SURE TRUST

encrypted message: j+Vjm%+\3h%+

original message: I LIKE SURE TRUST

encrypted message: j+Vjm%+\3h%+g

original message: I LIKE SURE TRUST

encrypted message: j+Vjm%+\3h%+gh

original message: I LIKE SURE TRUST

encrypted message: j+Vjm%+\3h%+gh3

original message: I LIKE SURE TRUST

encrypted message: j+Vjm%+\3h%+gh3\

original message: I LIKE SURE TRUST

encrypted message: j+Vjm%+\3h%+gh3\g

Process finished with exit code 0