

【综合题目】：写一个加密小程序，能够实现shift的加密，也能够实现shift解密

tips: abcdefg.....z ord() chr()

```
In [ ]: ord("a")
```

```
In [ ]: ord("b")
```

```
In [ ]: ord("c")
```

```
In [ ]: ord("d")
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```
In [ ]: chr(100)
```

```
In [ ]: def encrypt():
    plainText = input("你好，我是乐学偶得加解密小程序，请输入你想加密的文字： ")
    shift = int(input("你好，请输入你想平移的个数： "))
    cipherText = ""
    for ch in plainText:
        if ch.isalpha():
            stayInAlphabet = ord(ch) + shift
            if stayInAlphabet > ord('z'):
                stayInAlphabet -= 26
            finalLetter = chr(stayInAlphabet)
            cipherText += finalLetter
    print ("您好，您的加密已经完成，密文为： ", cipherText, ".我们是通过shift", shift, "位进行加密的。")

encrypt()
```

```
In [ ]: def decrypte():
    encryption=input("你好，我是乐学偶得加解密小程序，请输入你想解密的文字： ")
    encryption_shift=int(input("你好，请输入你想回移的个数： "))

    another_cipherText = ""
    for c in encryption:
        if c.isalpha():
            another_stayInAlphabet = ord(c) - encryption_shift
            if another_stayInAlphabet >ord("z"):
                another_stayInAlphabet += 26
            another_finalLetter = chr(another_stayInAlphabet)
            another_cipherText += another_finalLetter
    print ("您好，您的解密已经完成，明文为： ", another_cipherText, ".我们是通过shift", encryption_shift, "位进行解密的。")

decrypte()
```

In []: `from tkinter import *`

```
menu=Tk()
menu.title("乐学偶得的加解密小程序")
menu.geometry("300x200")
button1 = Button(menu,text="按这个按钮进行加密",command=encrypt)
button1.pack()

button2 = Button(menu,text="按这个按钮进行解密",command=decrypte)
button2.pack()

button3 = Button(menu,text="按这个按钮退出",command=exit)
button3.pack()

menu.mainloop()
```

In []: