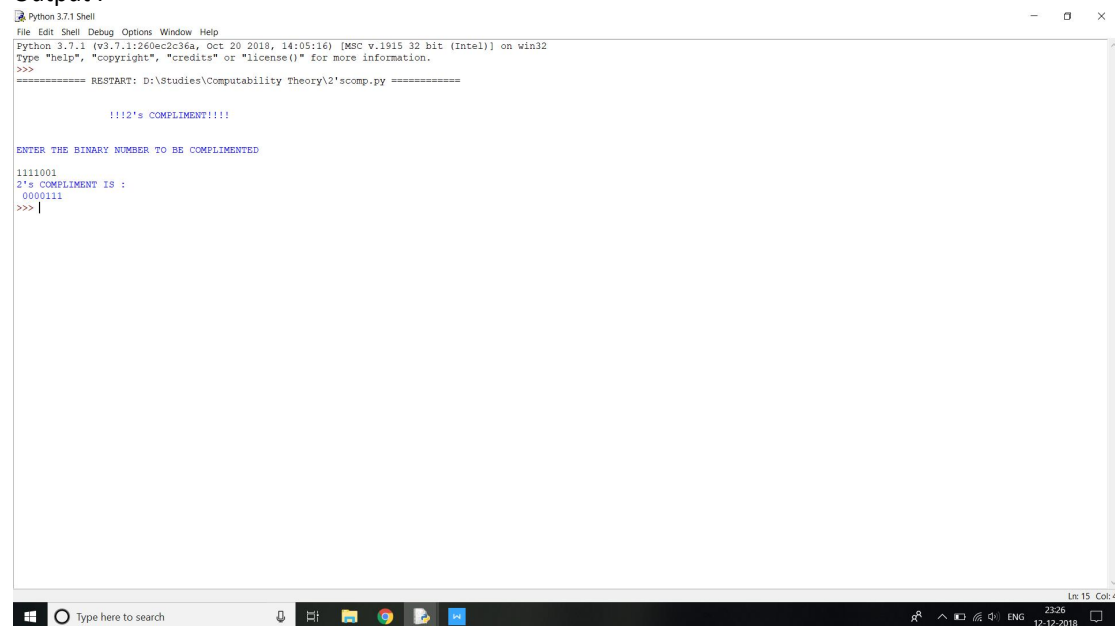


## 2's COMPLIMENT

```
print("\n\n\t\t!!!2's COMPLIMENT!!!!\n\n")
c=input("ENTER THE BINARY NUMBER TO BE COMPLIMENTED\n\n")
c=c[::-1] #for reversing the string
final=[]
count=0
for i in range(len(c)):
    if c[i]=='0':#output will be 0 till it reads zero
        final.append('0')
        count+=1
    elif c[i]=='1':
        final.append('1')#When input is 1 then output is 1
        count+=1
        break
c1=c[count:]#Apply 1's compliment on remaining strings
for i in c1:
    if i=='0':
        final.append('1')
    else:
        final.append('0')
result="".join(map(str, final)) #To join the elementss of the list
print ("2's COMPLIMENT IS :\n",result[::-1])
```

### Output :



```
Python 3.7.1 Shell
File Edit Shell Debug Options Window Help
Python 3.7.1 (tags/v3.7.1:260ec2c36a, Oct 20 2018, 14:05:16) [MSC v.1915 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Studies\Computability Theory\2'scomp.py =====

\t\t!!!2's COMPLIMENT!!!!

ENTER THE BINARY NUMBER TO BE COMPLIMENTED
1111001
2's COMPLIMENT IS :
0000111
>>> |
```