**实验报告**

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**实验名称**： 计算机程序设计上机实验

**实验要求：熟悉开发环境**

**实验题目：程序练习题**

**算法实现：（核心代码）**

1. 田字格

for i in range(11):

if i % 5 == 0:

print("+----+----+")

else:

print("| | |")

2.回文图

from turtle import \*

setup(650,650,200,200)

pencolor('blue')

edge = 200

while edge >5:

theta = 90

seth(theta)

fd(edge)

theta = theta - 90

seth(theta)

fd(edge)

edge = edge - 5

theta = theta -90

seth(theta)

fd(edge)

theta = theta - 90

seth(theta)

fd(edge)

edge = edge - 5

done()

3.p121 4.5猜数游戏

from random import \*

p = randint(0,100)

count = 0;

while True:

try:

n = eval(input('请输入一个0-100的整数:'))

except:

print('输入错误，请输入一个整数！')

continue

count += 1

if n > p:

print('遗憾，太大了')

elif n == p:

print('预测{}次，你猜中了！'.format(count))

break

else:

print('遗憾，太小了')

4.羊车门问题

from random import \*

x = 0

y = 0

s = ['车','羊1','羊2']

for i in range (10000000):

shuffle(s)

guess = choice(s)

if guess == '车':

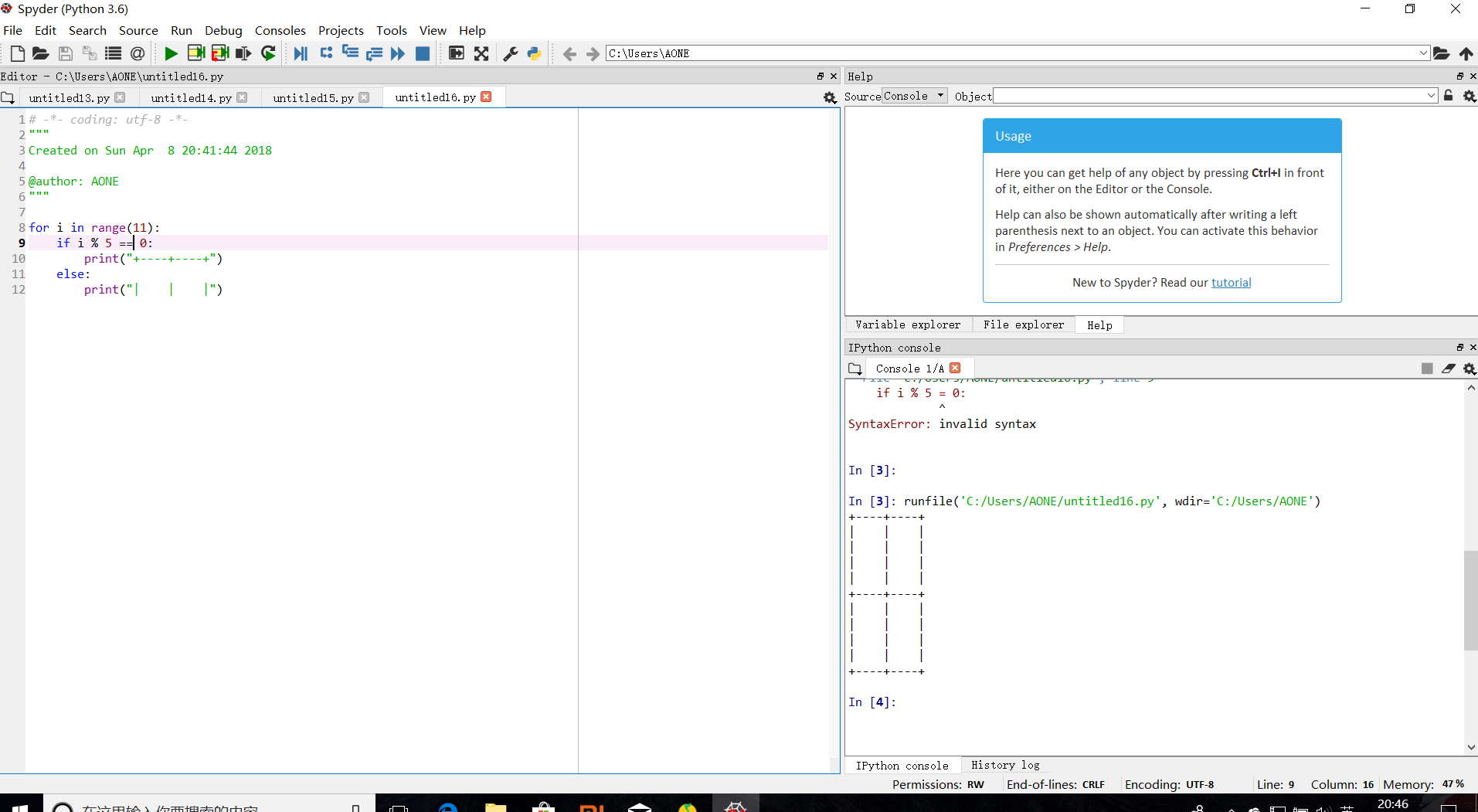
x += 1

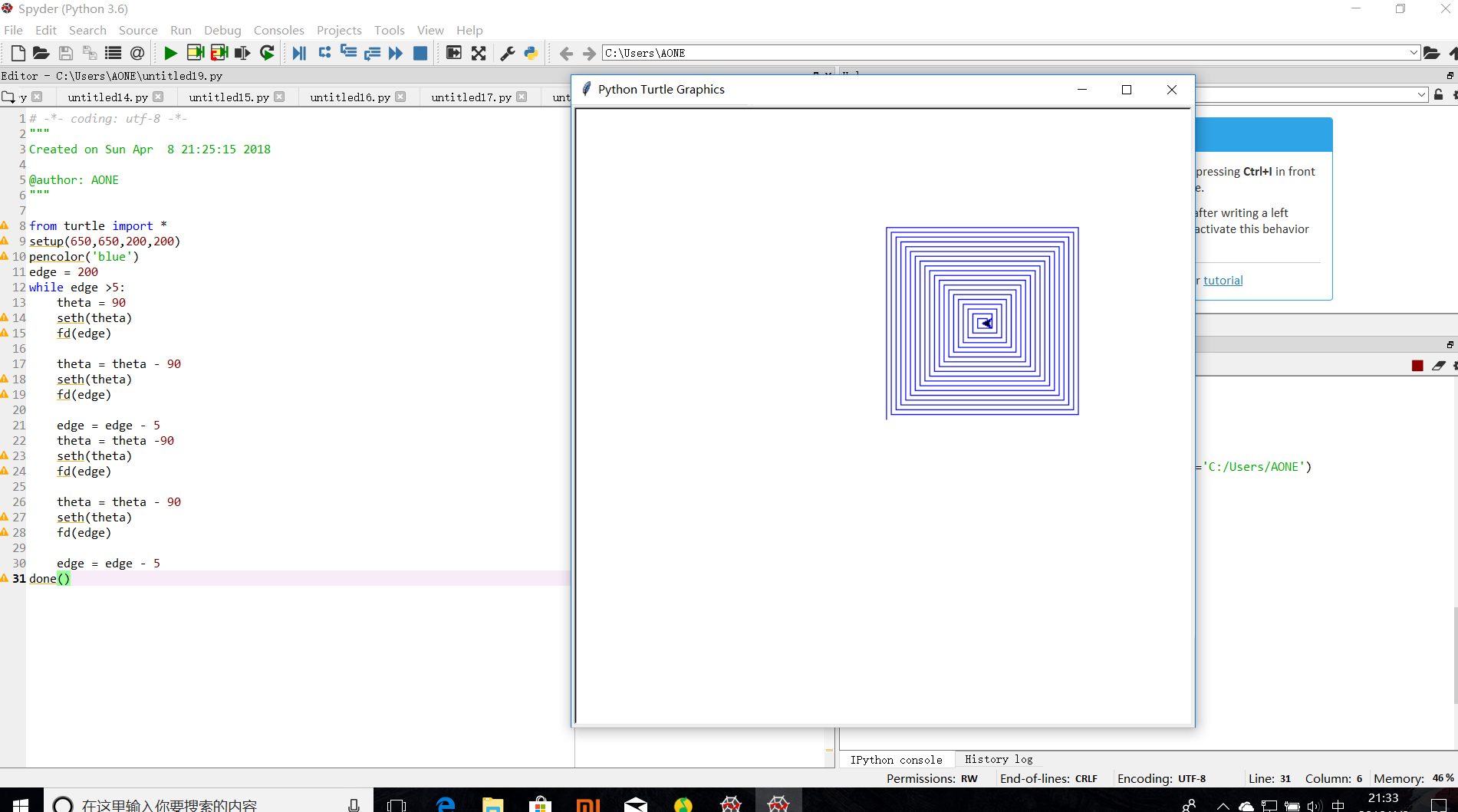
else:

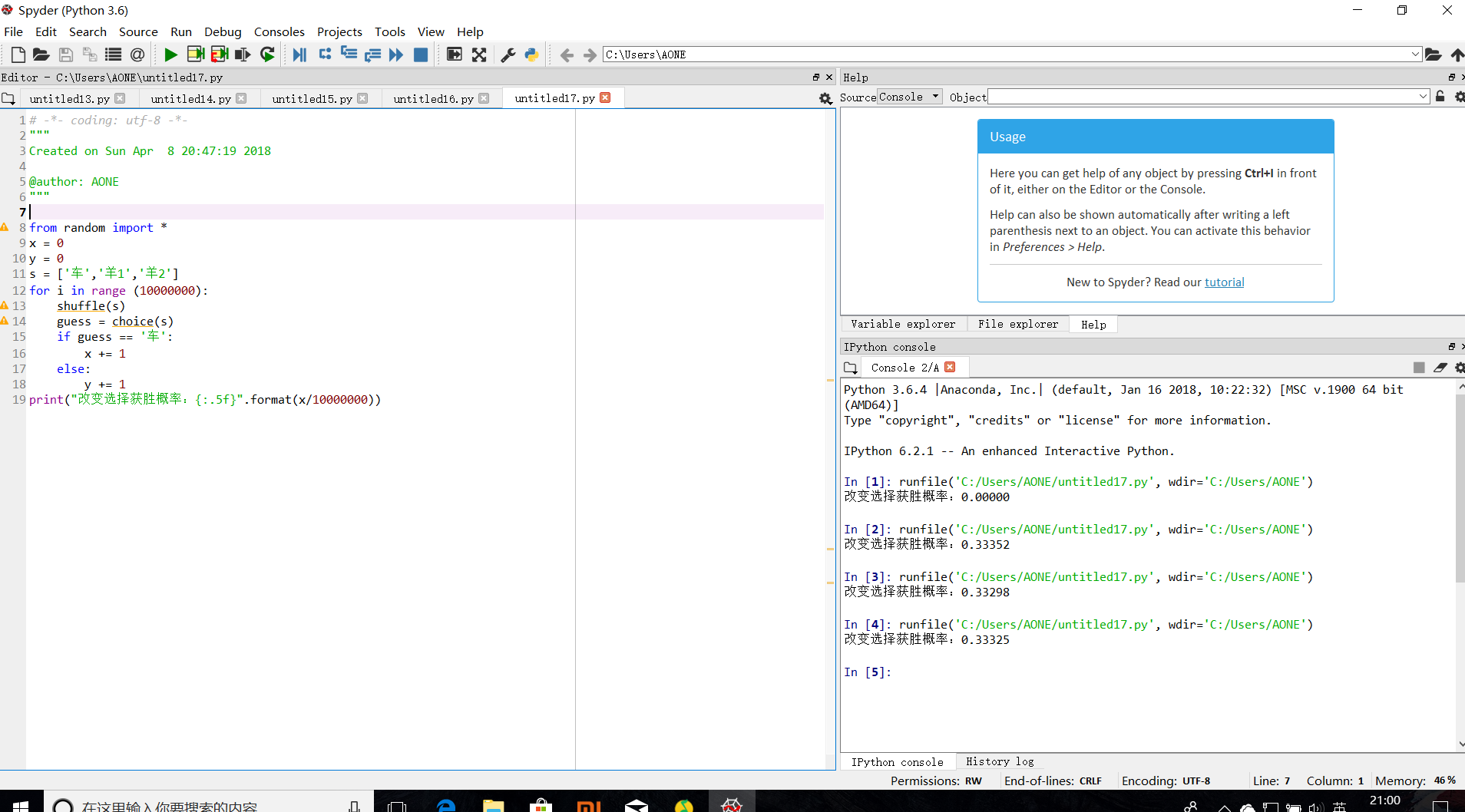
y += 1

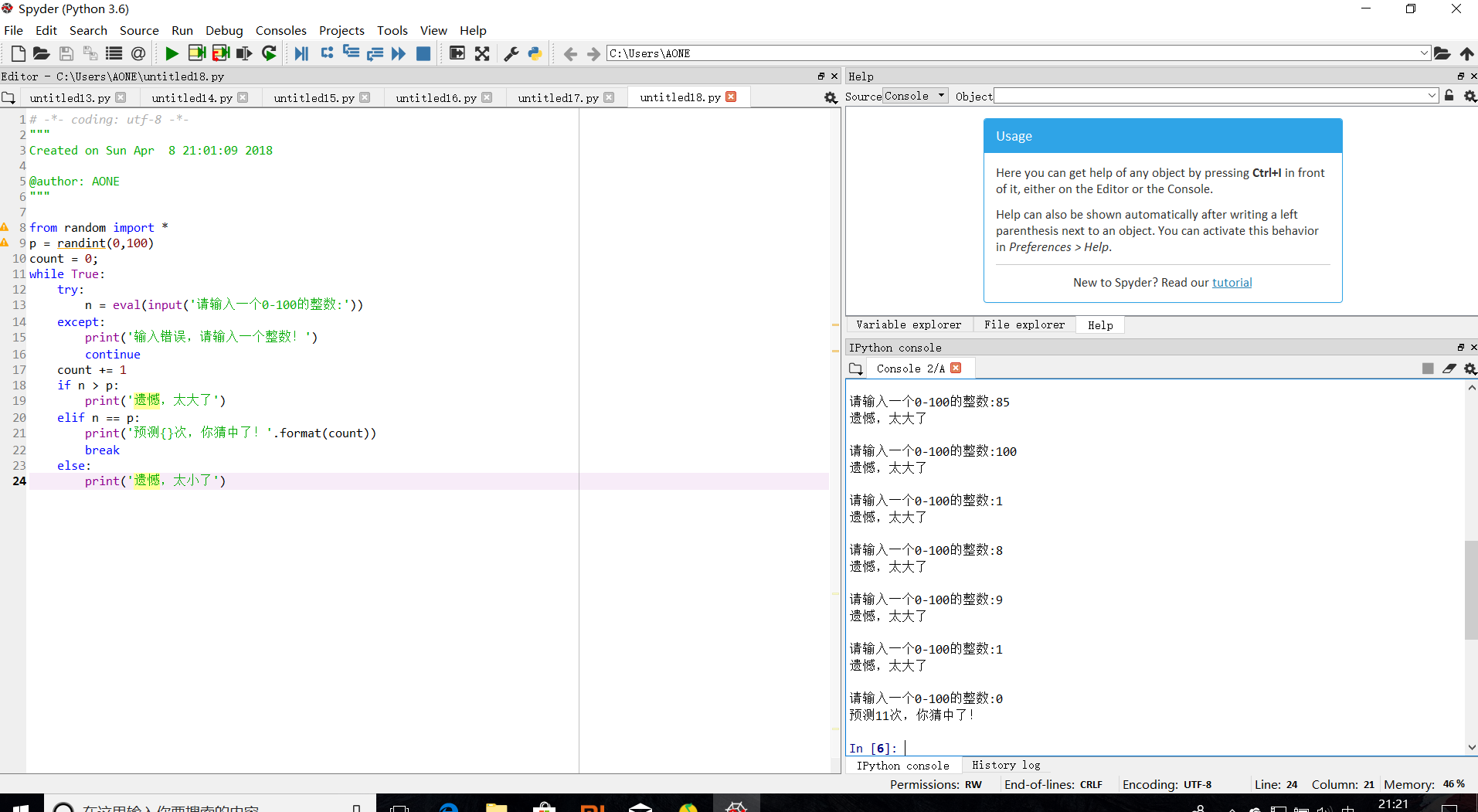
print("改变选择获胜概率：{:.5f}".format(x/10000000))

**运算结果（截图）**

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