### Practical File

### of

### Problem Solving using Python Programming

### 23CS001

#### Submitted

#### in partial fulfillment for the award of the degree of

## BACHELEOR OF ENGINEERING

***in***

COMPUTER SCIENCE & ENGINEERING

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**CHITKARA UNIVERSITY**

**CHANDIGARH-PATIALA NATIONAL HIGHWAY**

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**Program 1: ……….title of program……….**

Solution:

side\_1 = int(input("Please input first side value : "))

side\_2 = int(input("Please input second side value : "))

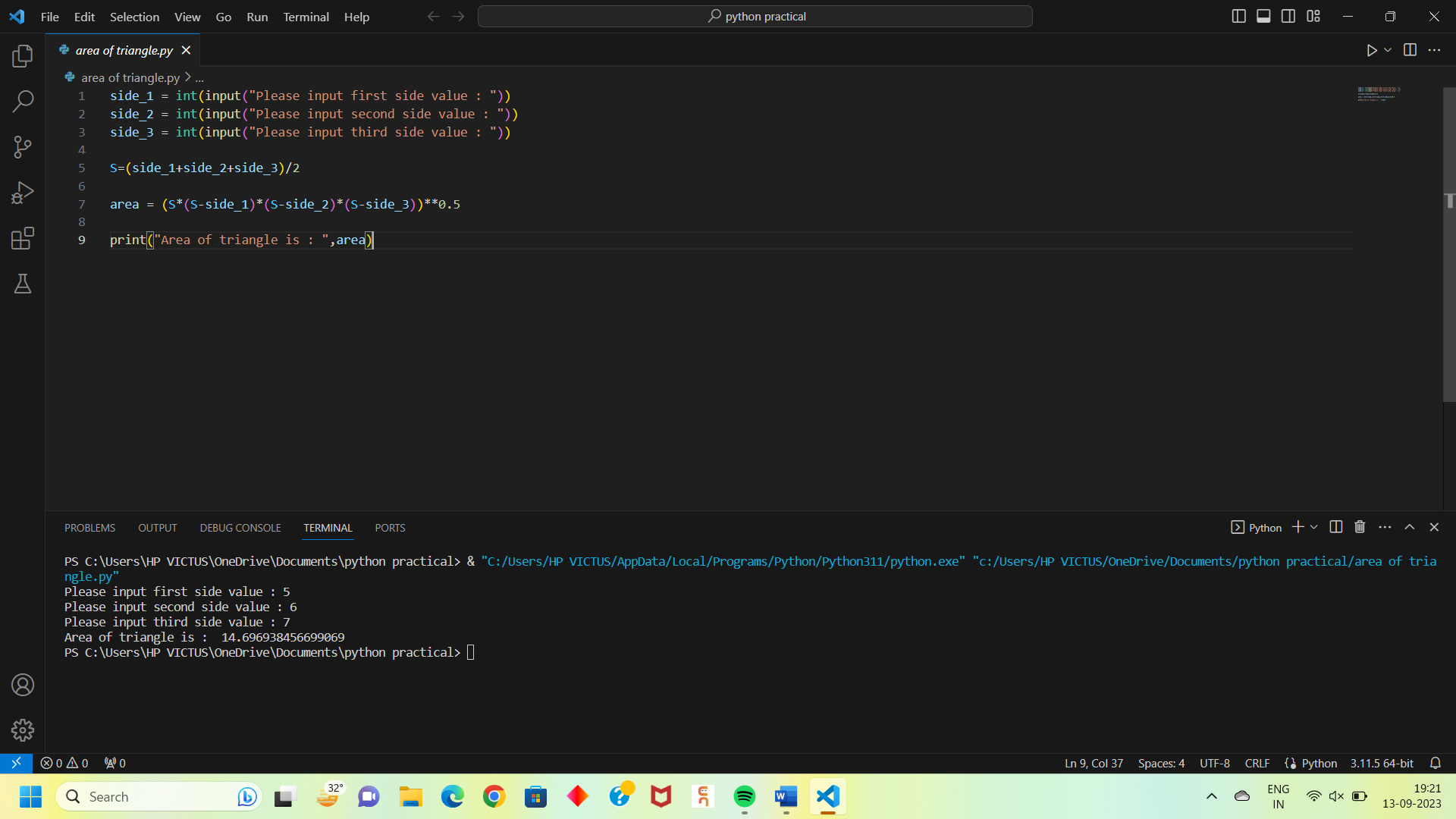
side\_3 = int(input("Please input third side value : "))

S=(side\_1+side\_2+side\_3)/2

area = (S\*(S-side\_1)\*(S-side\_2)\*(S-side\_3))\*\*0.5

print("Area of triangle is : ",area)

**Output:**

****

**Program 2: ………………..Title of program………..**

**Solution:**

**x = int(input("Enter the value of x : "))**

**y = int(input("Enter the value of y : "))**

**swap = x**

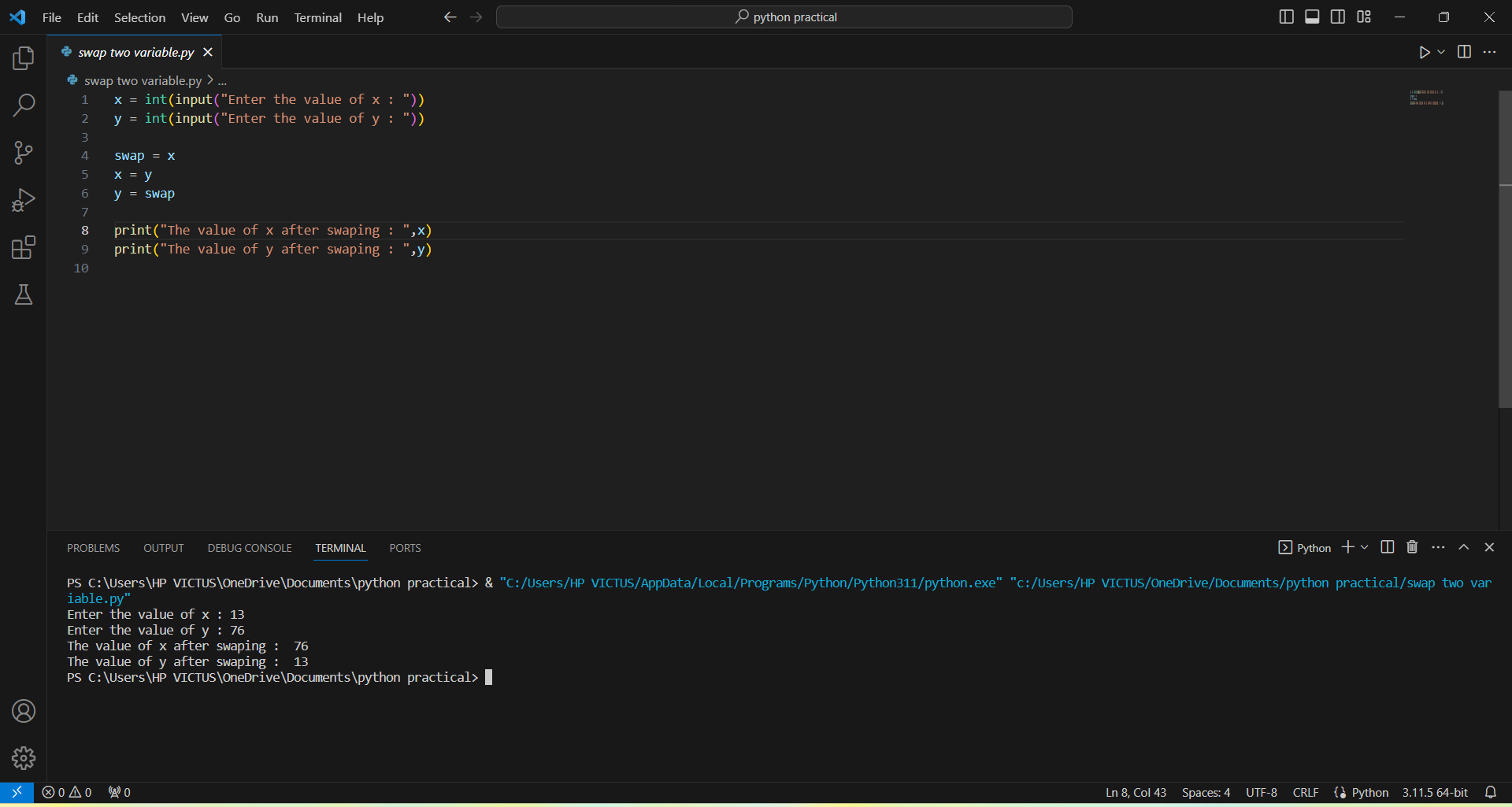
**x = y**

**y = swap**

**print("The value of x after swaping : ",x)**

**print("The value of y after swaping : ",y)**

**Output:**

****

**Program 3: ………………..Title of program………..**

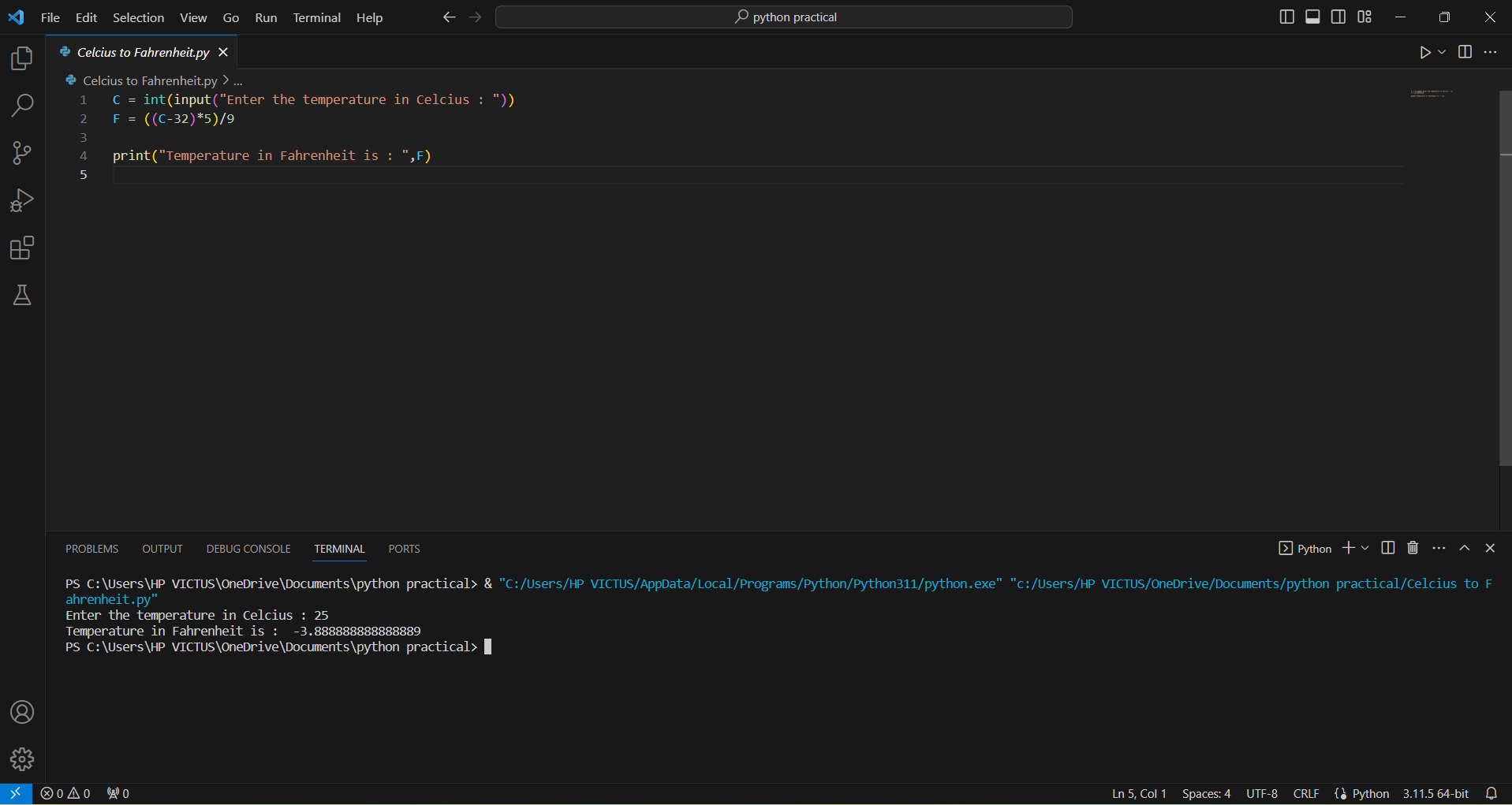
**Solution:**

C = int(input("Enter the temperature in Celcius : "))

F = ((C-32)\*5)/9

print("Temperature in Fahrenheit is : ",F)

**Output:**

****

**Program 4: ………………..Title of program………..**

**Solution:**

n = int(input("Enter the number : "))

if n<0 :

print("The number is negative.")

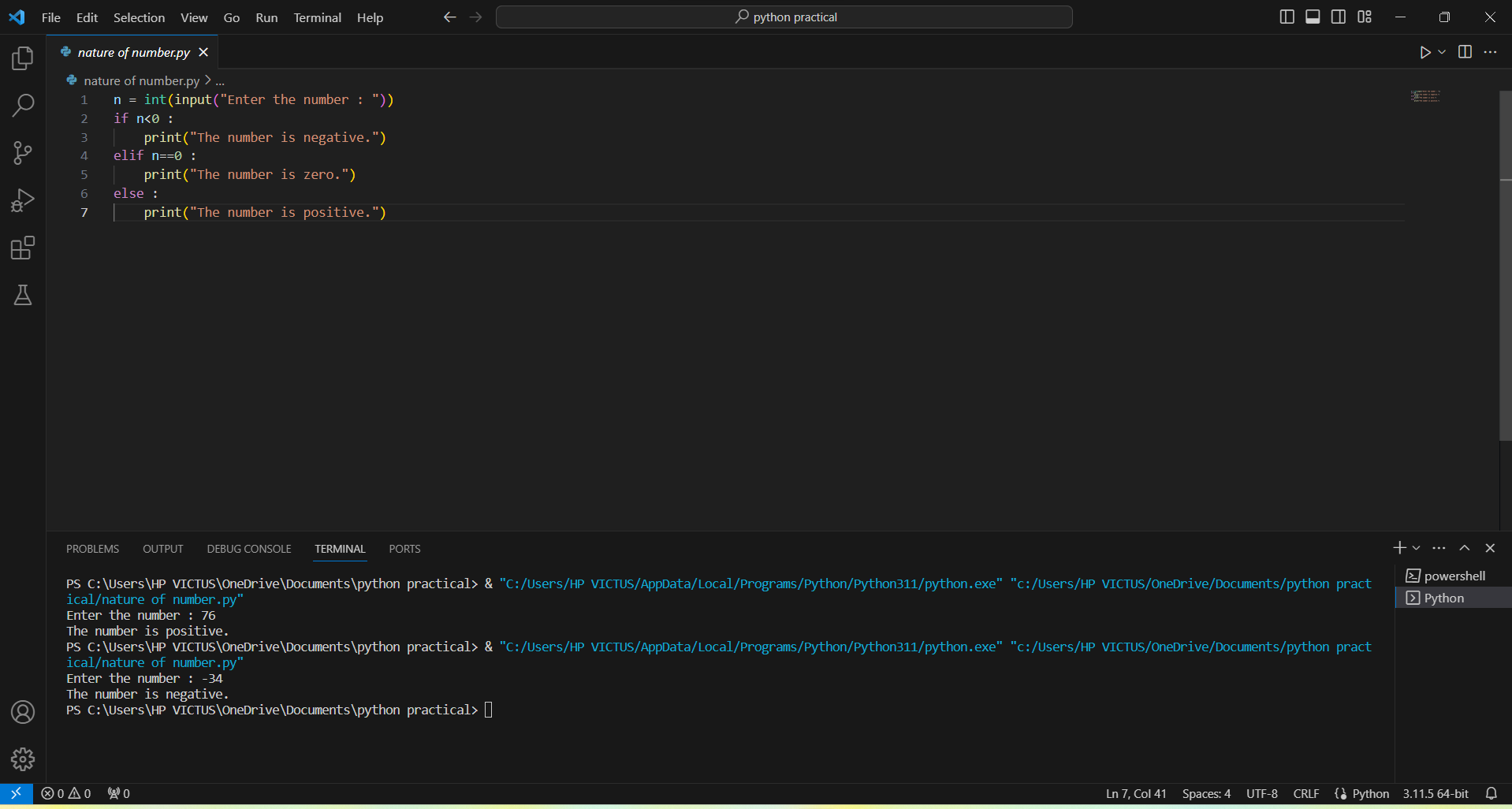
elif n==0 :

print("The number is zero.")

else :

print("The number is positive.")

**Output:**

****

**Program 5: ………………..Title of program………..**

**Solution:**

n=int(input("Enter the number: "))

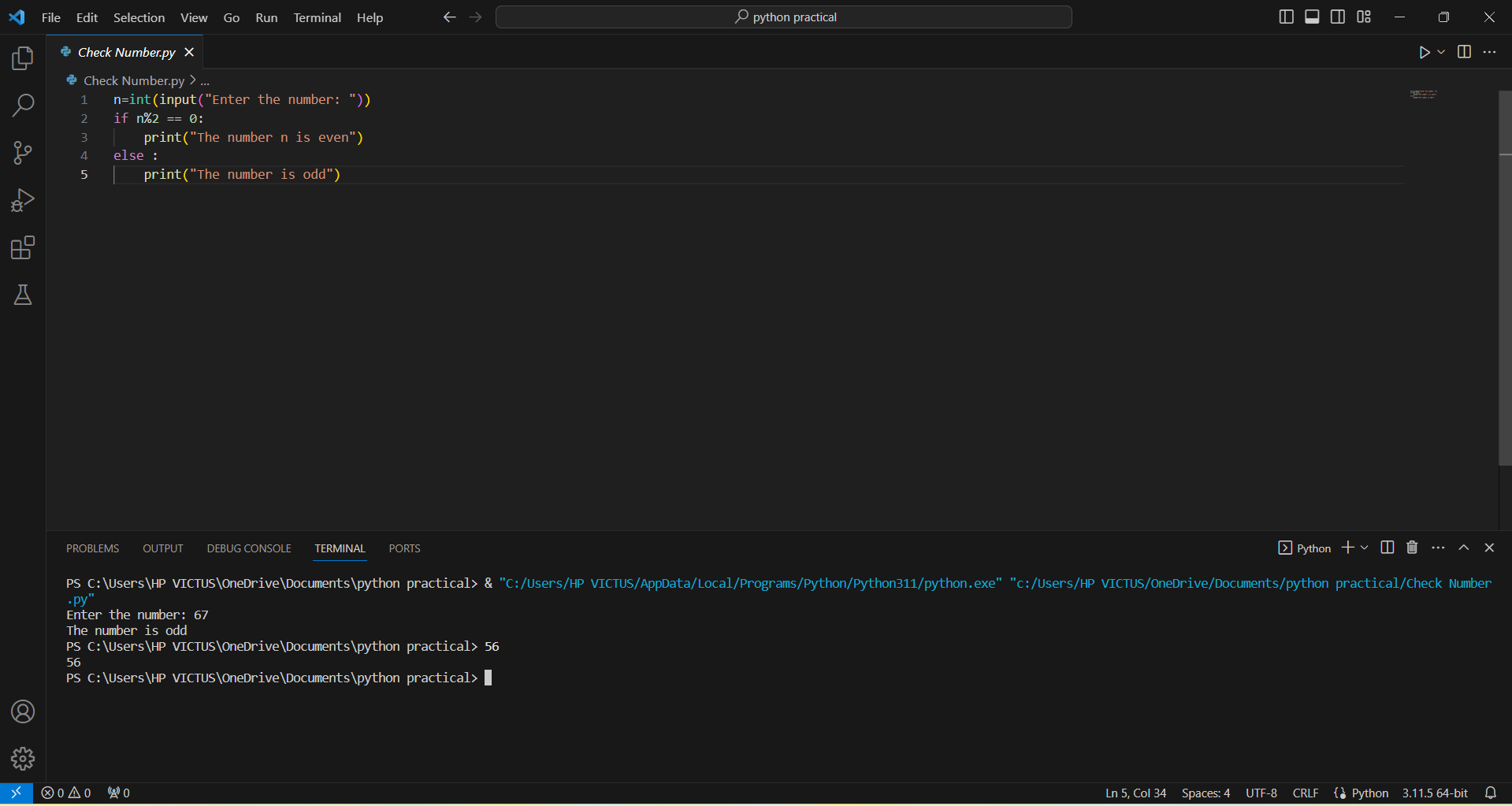
if n%2 == 0:

print("The number n is even")

else :

print("The number is odd")

**Output:**

****

**Program 6: ………………..Title of program………..**

**Solution:**

n = int(input("Enter the number : "))

sum = 0

order = len(str(n))

temp = n

while temp > 0:

digit = temp % 10

sum += digit\*\*order

temp //= 10

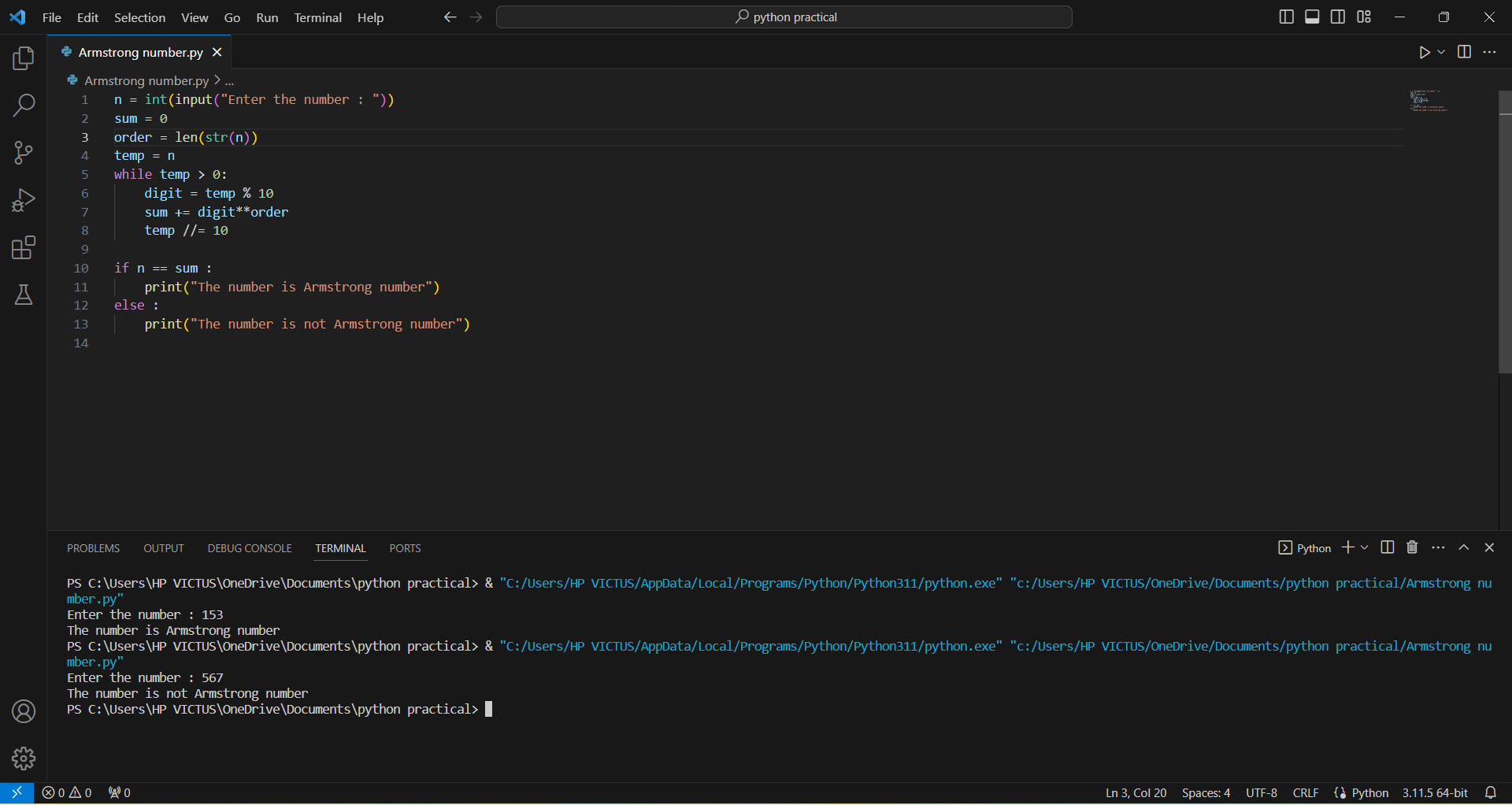
if n == sum :

print("The number is Armstrong number")

else :

print("The number is not Armstrong number")

**Output:**

****

**Program 7: ………………..Title of program………..**

**Solution:**

**Output:**

**Program 8: ………………..Title of program………..**

**Solution:**

**Output:**