

```

#student information

first_name=input("enter first name: ")
last_name=input("enter last name: ")
age=float(input("enter age: "))
GPA=float(input("enter GPA: "))
major=input("enter major: ")
address=input("enter address: ")

print("hello welcome " + first_name + last_name + " your age is " + str(age)
+ " your GPA is " + str(GPA) + " you are majoring in " + major + " your address
is " + str(address))

```

Ex1 Solution screenshot

The screenshot shows a code editor with a file explorer at the top containing files like question1.py, question3.py, question6.py, question7.py, set1 Basic Calculations.py, question 1.py BASIC CALCULATIONS LAB 2, and example.py. The main editor window displays the following Python code:

```

1 #student information
2
3 first_name=input("enter first name: ")
4 last_name=input("enter last name: ")
5 age=float(input("enter age: "))
6 GPA=float(input("enter GPA: "))
7 major=input("enter major: ")
8 address=input("enter address: ")
9
10
11
12
13 print("hello welcome " + first_name + last_name + " your age is " + str(age) + " your GPA is " + str(GPA) + " you are majoring in " + major + " your address is " +
14 str(address))
15
16

```

Below the code editor is a terminal window showing the execution of the program. The prompt is 'PS C:\Users\lolog\OneDrive\Desktop\OBJECT ORIENTED ASSIGNMENTS>' and the command is '& C:\Users\lolog\AppData\Local\Programs\Python\Python310\python.exe "C:\Users\lolog\OneDrive\Desktop\OBJECT ORIENTED ASSIGNMENTS\BASIC CALCULATIONS LAB 2\question 1.py"'. The output shows the user entering 'lolina' for first name, 'Gongola' for last name, '22' for age, '98' for GPA, 'objected oriented' for major, and '38 street' for address. The final output is 'hello welcome lolinagongola your age is 22.0 your GPA is 98.0 you are majoring in objected oriented your address is 38 street'.

Ex3

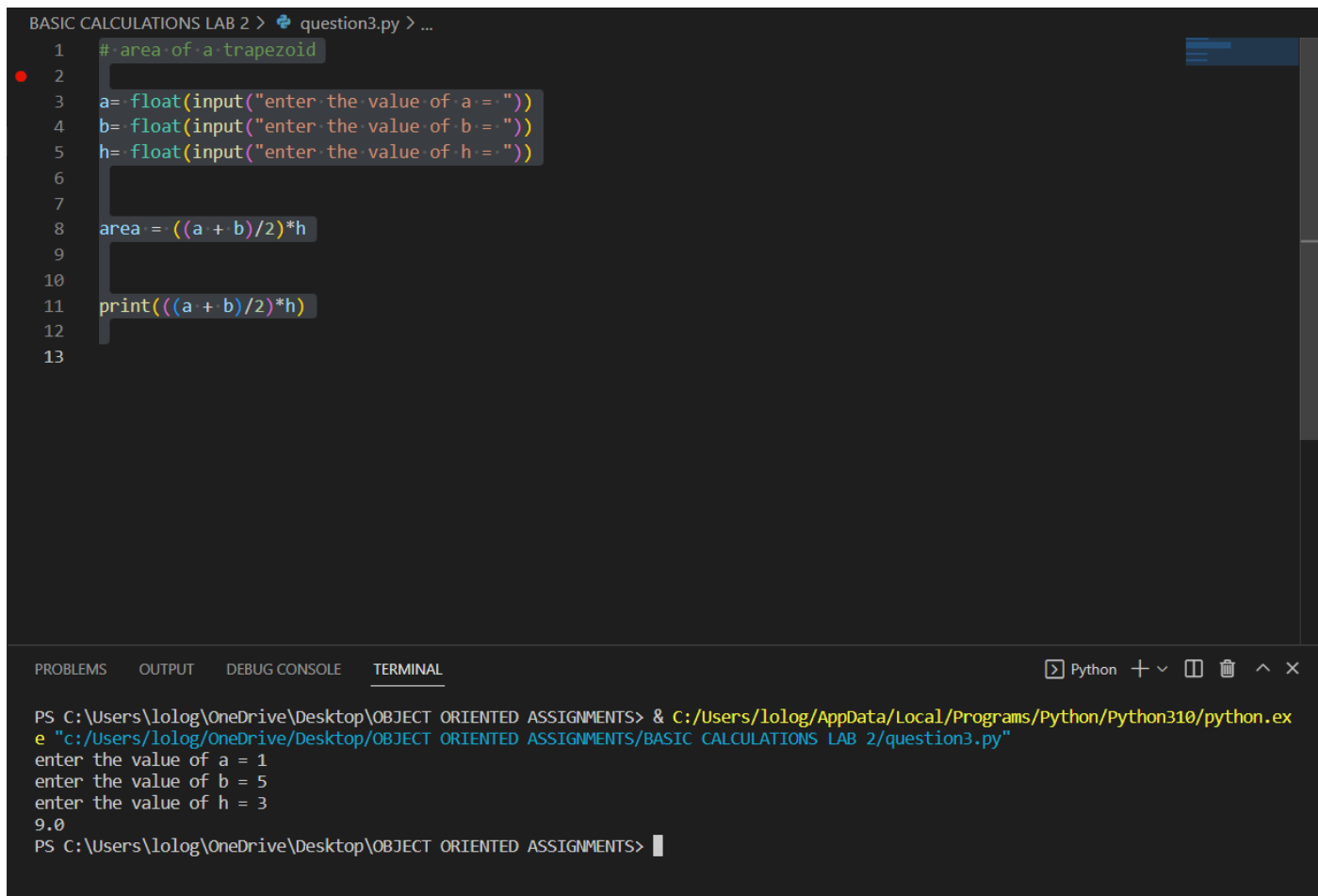
```
# area of a trapezoid

a= float(input("enter the value of a = "))
b= float(input("enter the value of b = "))
h= float(input("enter the value of h = "))

area = ((a + b)/2)*h

print(((a + b)/2)*h)
```

Ex3 solution screenshot



The screenshot displays a code editor window titled "BASIC CALCULATIONS LAB 2 > question3.py > ...". The code in the editor is as follows:

```
1 # area of a trapezoid
2
3 a= float(input("enter the value of a = "))
4 b= float(input("enter the value of b = "))
5 h= float(input("enter the value of h = "))
6
7
8 area = ((a + b)/2)*h
9
10
11 print(((a + b)/2)*h)
12
13
```

Below the code editor is a terminal window with the following output:

```
PS C:\Users\lollog\OneDrive\Desktop\OBJECT ORIENTED ASSIGNMENTS> & C:/Users/lolog/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lolog/OneDrive/Desktop/OBJECT ORIENTED ASSIGNMENTS/BASIC CALCULATIONS LAB 2/question3.py"
enter the value of a = 1
enter the value of b = 5
enter the value of h = 3
9.0
PS C:\Users\lollog\OneDrive\Desktop\OBJECT ORIENTED ASSIGNMENTS>
```

Ex6

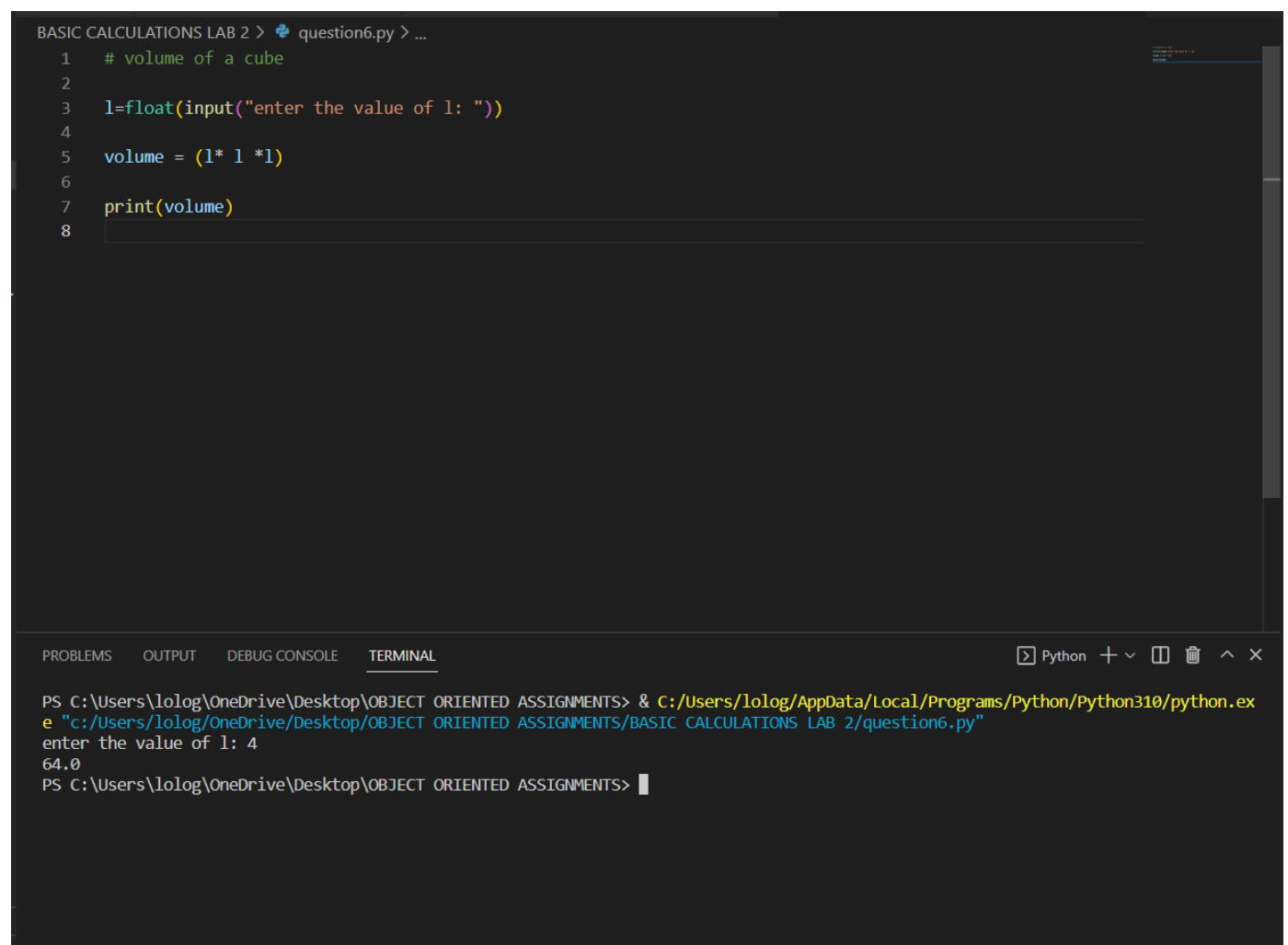
```
# volume of a cube

l=float(input("enter the value of l: "))

volume = (l* l *l)

print(volume)
```

Ex6 solution screenshot



The screenshot displays a code editor window titled "BASIC CALCULATIONS LAB 2 > question6.py > ...". The code in the editor is as follows:

```
1 # volume of a cube
2
3 l=float(input("enter the value of l: "))
4
5 volume = (l* l *l)
6
7 print(volume)
8
```

Below the code editor is a terminal window with the following output:

```
PS C:\Users\lolog\OneDrive\Desktop\OBJECT ORIENTED ASSIGNMENTS> & C:/Users/lolog/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lolog/OneDrive/Desktop/OBJECT ORIENTED ASSIGNMENTS/BASIC CALCULATIONS LAB 2/question6.py"
enter the value of l: 4
64.0
PS C:\Users\lolog\OneDrive\Desktop\OBJECT ORIENTED ASSIGNMENTS>
```

Ex7

```
# area and circumference of a circle

pi=22/7

r= float(input("enter the radius of the circle: "))

Area= (pi * (r * r))

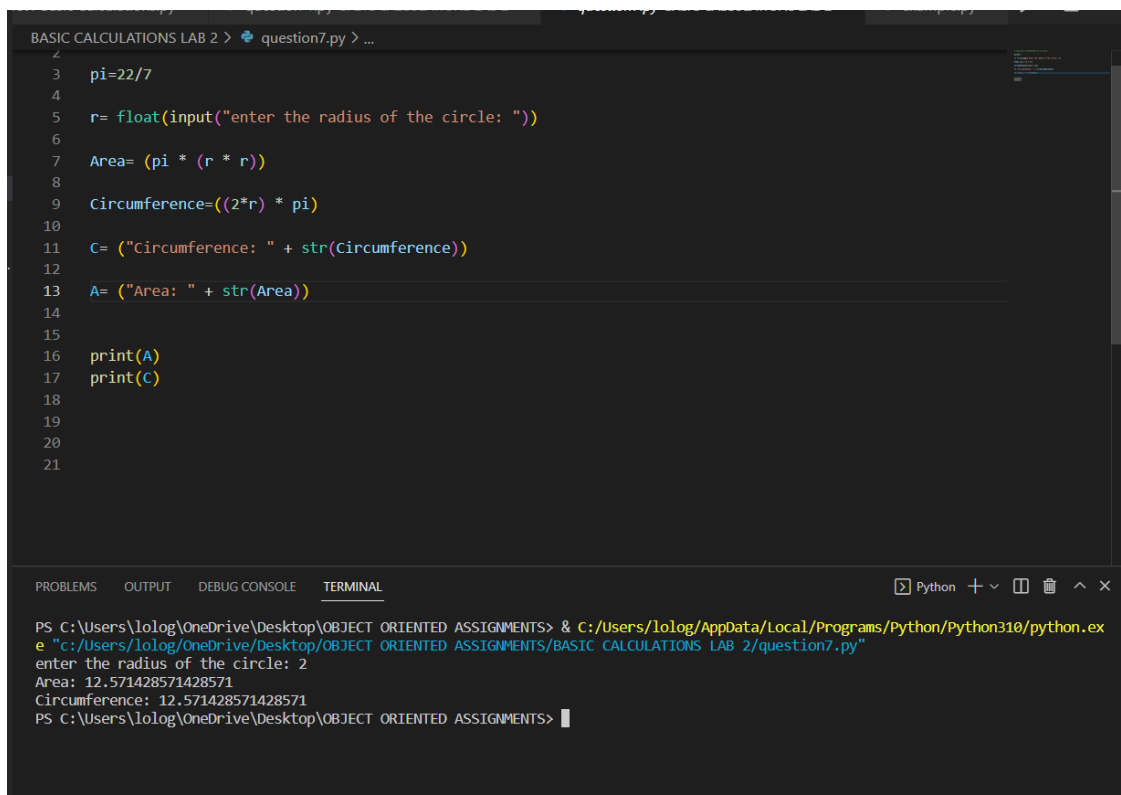
Circumference=((2*r) * pi)

C= ("Circumference: " + str(Circumference))

A= ("Area: " + str(Area))

print(A)
print(C)
```

Ex7 solution screenshot



The screenshot displays a Python IDE window titled "BASIC CALCULATIONS LAB 2 > question7.py > ...". The editor shows the following code:

```
1
2
3 pi=22/7
4
5 r= float(input("enter the radius of the circle: "))
6
7 Area= (pi * (r * r))
8
9 Circumference=((2*r) * pi)
10
11 C= ("Circumference: " + str(Circumference))
12
13 A= ("Area: " + str(Area))
14
15
16 print(A)
17 print(C)
18
19
20
21
```

The bottom panel shows the "TERMINAL" output:

```
PS C:\Users\lolog\OneDrive\Desktop\OBJECT ORIENTED ASSIGNMENTS> & C:/Users/lolog/AppData/Local/Programs/Python/Python310/python.exe
e "C:/Users/lolog/OneDrive/Desktop/OBJECT ORIENTED ASSIGNMENTS/BASIC CALCULATIONS LAB 2/question7.py"
enter the radius of the circle: 2
Area: 12.571428571428571
Circumference: 12.571428571428571
PS C:\Users\lolog\OneDrive\Desktop\OBJECT ORIENTED ASSIGNMENTS> |
```

Ex8

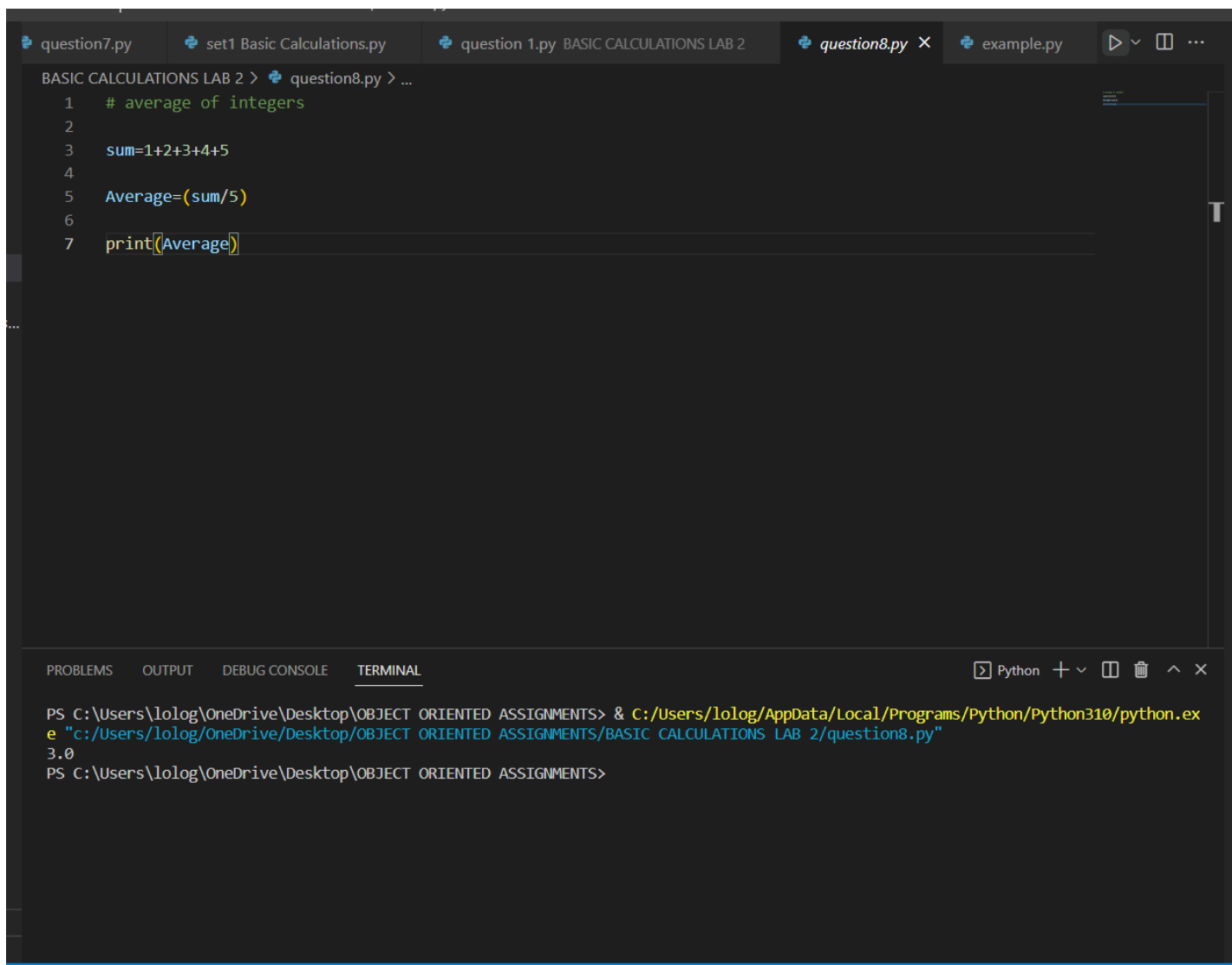
```
# average of integers

sum=1+2+3+4+5

Average=(sum/5)

print(Average)
```

Ex8 solution screenshot



The screenshot shows a code editor with the following code in a file named `question8.py`:

```
1 # average of integers
2
3 sum=1+2+3+4+5
4
5 Average=(sum/5)
6
7 print(Average)
```

The editor's terminal window shows the command to run the script and the output:

```
PS C:\Users\lolog\OneDrive\Desktop\OBJECT ORIENTED ASSIGNMENTS> & C:/Users/lolog/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lolog/OneDrive/Desktop/OBJECT ORIENTED ASSIGNMENTS/BASIC CALCULATIONS LAB 2/question8.py"
3.0
PS C:\Users\lolog\OneDrive\Desktop\OBJECT ORIENTED ASSIGNMENTS>
```