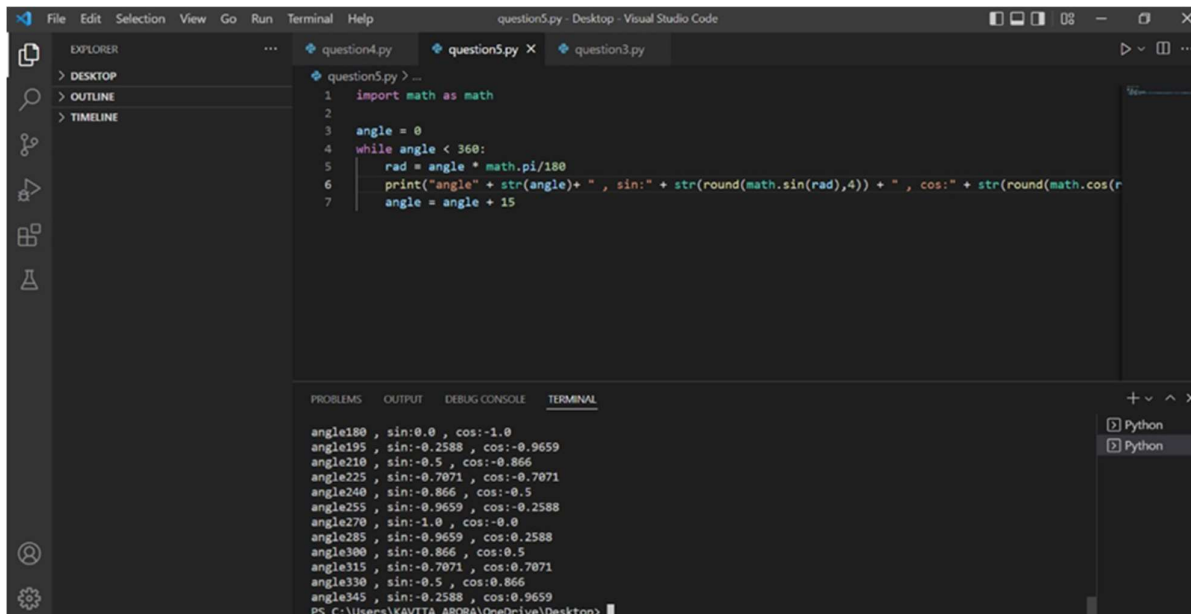


ASSIGNMENT: PYTHON BASICS

QUESTION: 5



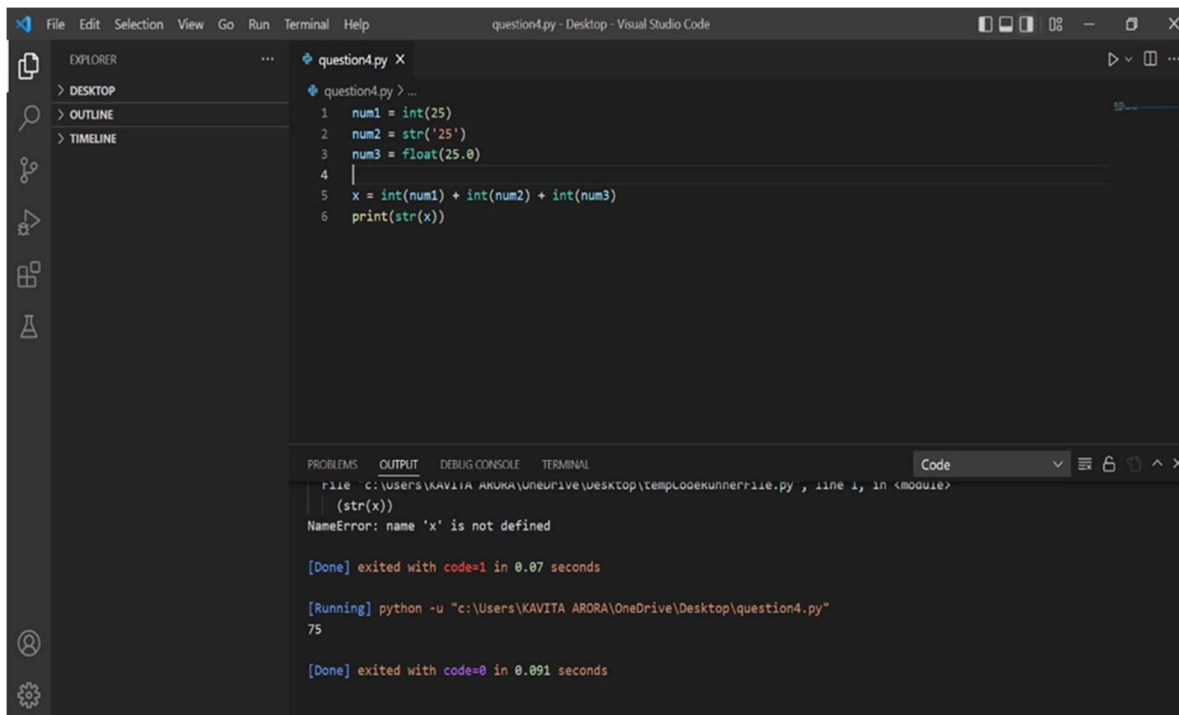
```
File Edit Selection View Go Run Terminal Help
question5.py - Desktop - Visual Studio Code

EXPLORER
> DESKTOP
> OUTLINE
> TIMELINE

question4.py question5.py x question3.py
question5.py > ...
1 import math as math
2
3 angle = 0
4 while angle < 360:
5     rad = angle * math.pi/180
6     print("angle" + str(angle)+ " , sin:" + str(round(math.sin(rad),4)) + " , cos:" + str(round(math.cos(r
7     angle = angle + 15

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
angle180 , sin:0.0 , cos:-1.0
angle195 , sin:-0.2588 , cos:-0.9659
angle210 , sin:-0.5 , cos:-0.866
angle225 , sin:-0.7071 , cos:-0.7071
angle240 , sin:-0.866 , cos:-0.5
angle255 , sin:-0.9659 , cos:-0.2588
angle270 , sin:-1.0 , cos:-0.0
angle285 , sin:-0.9659 , cos:0.2588
angle300 , sin:-0.866 , cos:0.5
angle315 , sin:-0.7071 , cos:0.7071
angle330 , sin:-0.5 , cos:0.866
angle345 , sin:-0.2588 , cos:0.9659
PS C:\Users\KAVITA ARORA\OneDrive\Desktop>
```

QUESTION 4



```
File Edit Selection View Go Run Terminal Help
question4.py - Desktop - Visual Studio Code

EXPLORER
> DESKTOP
> OUTLINE
> TIMELINE

question4.py x
question4.py > ...
1 num1 = int(25)
2 num2 = str('25')
3 num3 = float(25.0)
4
5 x = int(num1) + int(num2) + int(num3)
6 print(str(x))

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
File C:\Users\KAVITA ARORA\OneDrive\Desktop\tempcodekunnerfile.py, line 1, in <module>
    (str(x))
NameError: name 'x' is not defined

[Done] exited with code=1 in 0.07 seconds

[Running] python -u "c:\Users\KAVITA ARORA\OneDrive\Desktop\question4.py"
75

[Done] exited with code=0 in 0.091 seconds
```

QUESTION 3

```
question 3.py - C:/Users/KAVITA ARORA/OneDrive/Desktop/question 3.py (3.9.5)
File Edit Format Run Options Window Help
seconds = int(input("enter number of seconds"))
minutes_displayed = seconds // 60
seconds_displayed = seconds % 60
print (seconds, "seconds is", minutes_displayed, "minutes and", seconds_displayed, "seconds")

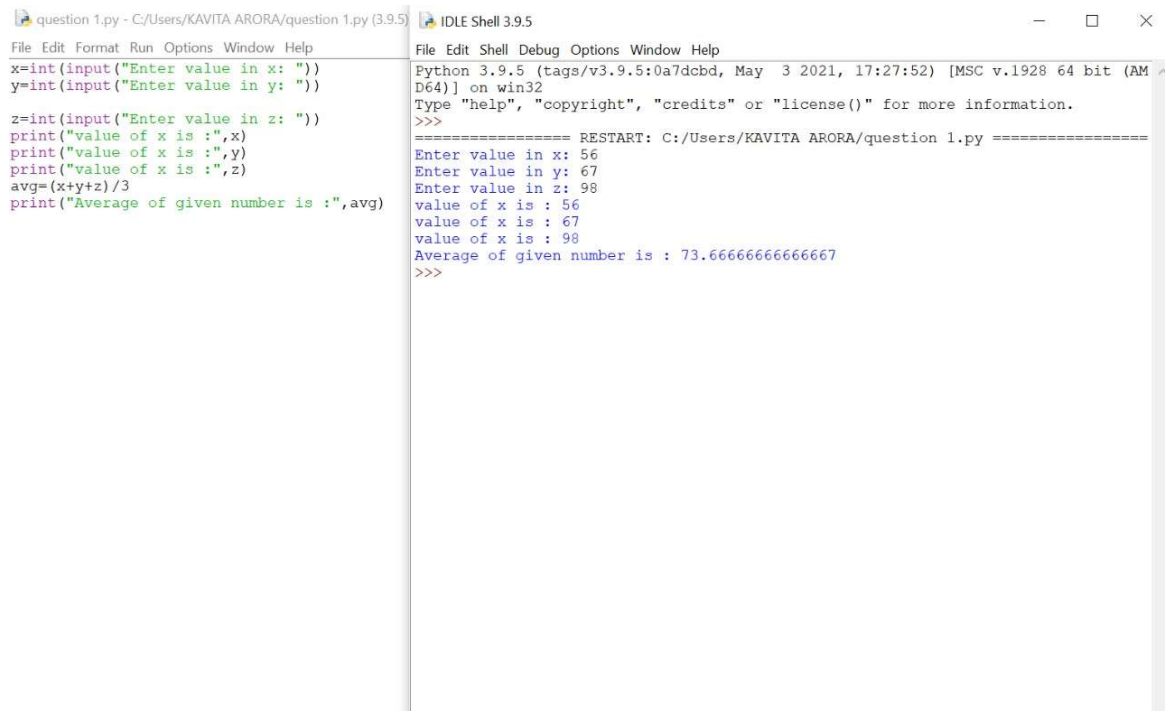
IDLE Shell 3.9.5
File Edit Shell Debug Options Window Help
Python 3.9.5 (tags/v3.9.5:0a7dcdb, May 3 2021, 17:27:52) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/KAVITA ARORA/OneDrive/Desktop/question 3.py =====
enter number of seconds 200
200 seconds is 3 minutes and 20 seconds
>>>
```

QUESTION 2

```
question 2.py - C:/Users/KAVITA ARORA/OneDrive/Desktop/question 2.py (3.9.5)
File Edit Format Run Options Window Help
income = int(input('enter your income:$ '))
dependents = int(input("number of dependents on you: "))
income_tax = (income*0.20) - 10000 - (dependents*3000)
payable_tax = str(max(0,income_tax))
print('your payable tax is $' + payable_tax)

IDLE Shell 3.9.5
File Edit Shell Debug Options Window Help
Python 3.9.5 (tags/v3.9.5:0a7dcdb, May 3 2021, 17:27:52) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/KAVITA ARORA/question 1.py =====
Enter value in x: 56
Enter value in y: 67
Enter value in z: 98
value of x is : 56
value of x is : 67
value of x is : 98
Average of given number is : 73.66666666666667
>>>
===== RESTART: C:/Users/KAVITA ARORA/C
neDrive/Desktop/question 2.py =====
enter your income:$ 999999
number of dependents on you: 4
your payable tax is $177999.800000000002
>>>
```

QUESTION 1



```
question 1.py - C:/Users/KAVITA ARORA/question 1.py (3.9.5) IDLE Shell 3.9.5
File Edit Format Run Options Window Help
x=int(input("Enter value in x: "))
y=int(input("Enter value in y: "))

z=int(input("Enter value in z: "))
print("value of x is :",x)
print("value of x is :",y)
print("value of x is :",z)
avg=(x+y+z)/3
print("Average of given number is :",avg)

Python 3.9.5 (tags/v3.9.5:0a7dcdbd, May 3 2021, 17:27:52) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/KAVITA ARORA/question 1.py =====
Enter value in x: 56
Enter value in y: 67
Enter value in z: 98
value of x is : 56
value of x is : 67
value of x is : 98
Average of given number is : 73.66666666666667
>>>
```