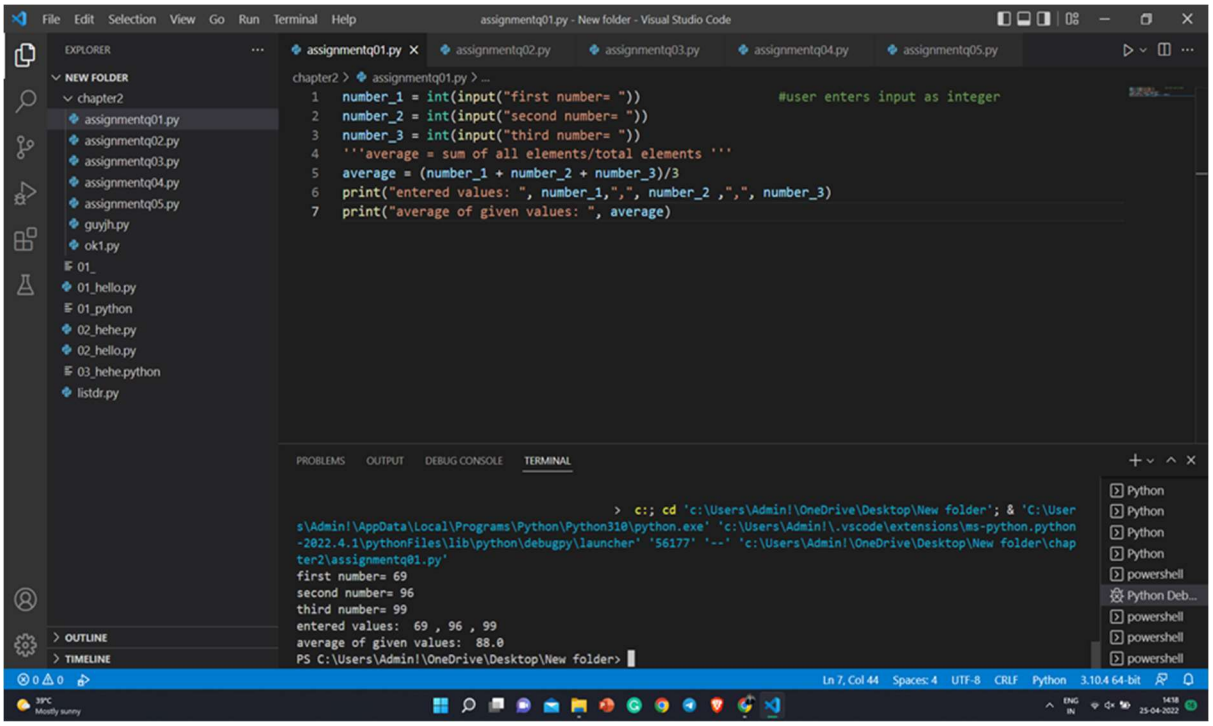
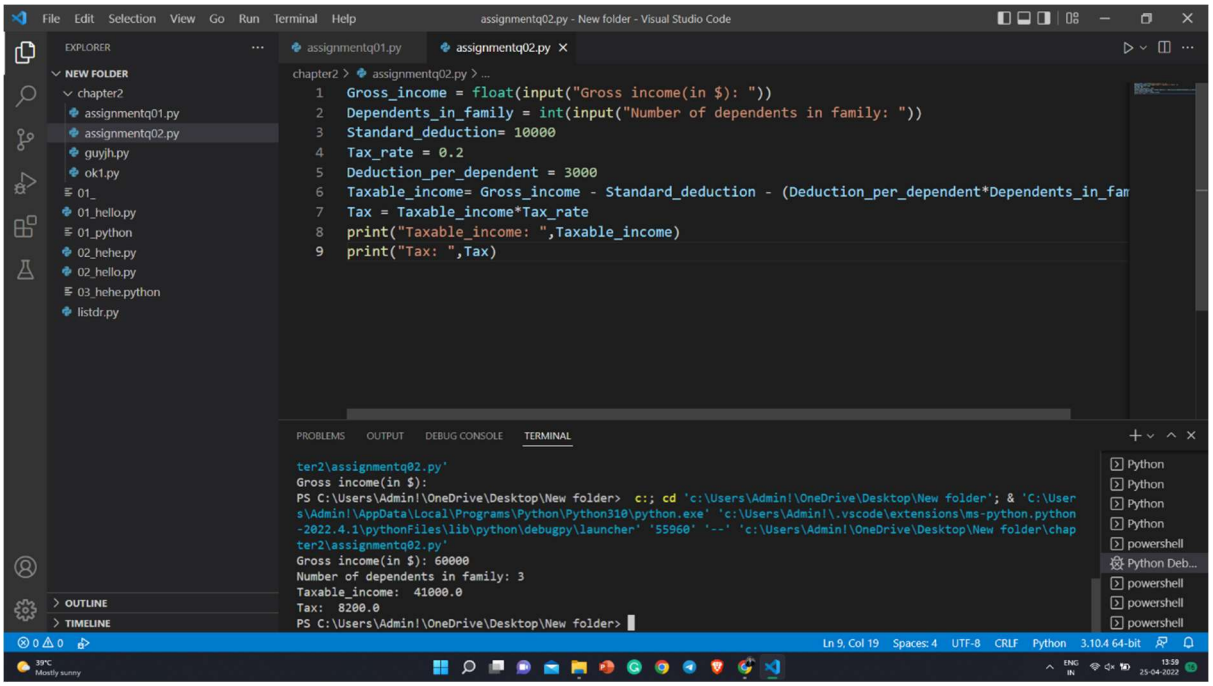
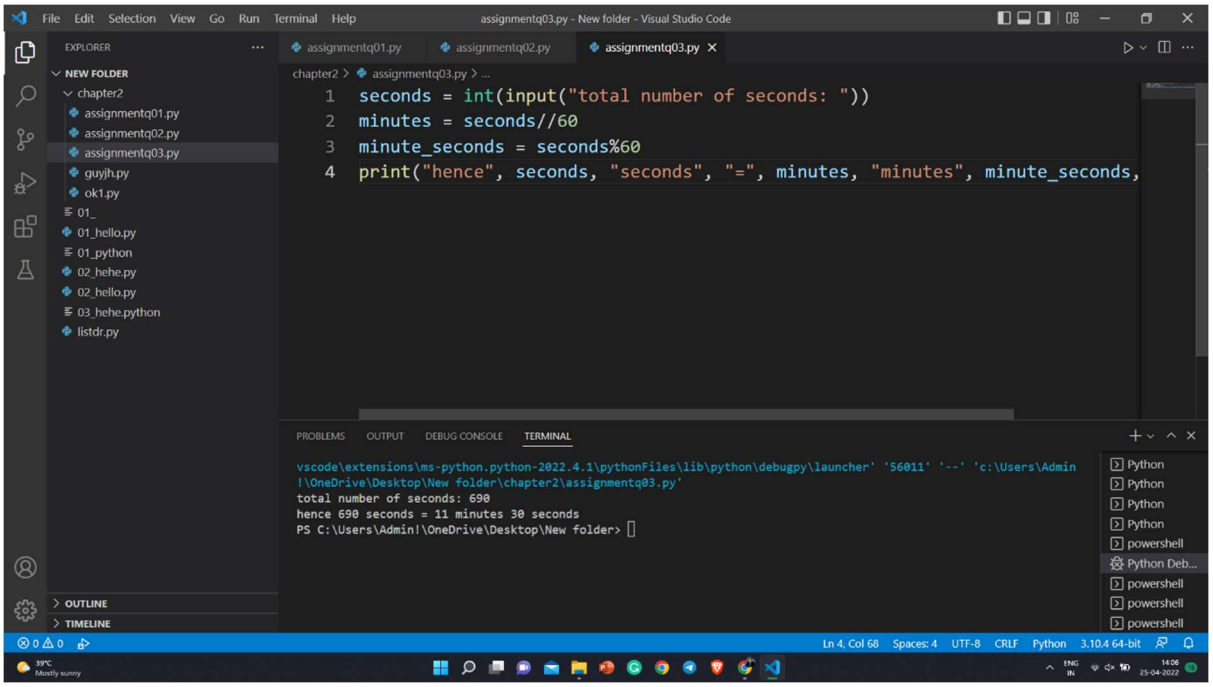
Q1


File Edit Selection View Go Run Terminal Help
assignmentq01.py - New folder - Visual Studio Code
EXPLORER
NEW FOLDER
chapter2
assignmentq01.py
assignmentq02.py
assignmentq03.py
assignmentq04.py
assignmentq05.py
guyjh.py
ok1.py
01_
01_hello.py
01_python
02_hehe.py
02_hello.py
03_hehe.python
listdr.py
assignmentq01.py
assignmentq02.py
assignmentq03.py
assignmentq04.py
assignmentq05.py
chapter2 > assignmentq01.py > ...
1 number_1 = int(input("first number= "))
#user enters input as integer
2 number_2 = int(input("second number= "))
3 number_3 = int(input("third number= "))
4 '''average = sum of all elements/total elements '''
5 average = (number_1 + number_2 + number_3)/3
6 print("entered values: ", number_1,",", number_2 ,",", number_3)
7 print("average of given values: ", average)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
> c:; cd 'c:\Users\Admin!\OneDrive\Desktop\New folder'; & 'C:\User
s\Admin!\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\Admin!\.vscode\extensions\ms-python.python
-2022.4.1\pythonFiles\lib\python\debugpy\launcher' '56177' '--' 'c:\Users\Admin!\OneDrive\Desktop\New folder\chap
ter2\assignmentq01.py'
first number= 69
second number= 96
third number= 99
entered values: 69 , 96 , 99
average of given values: 88.0
PS C:\Users\Admin!\OneDrive\Desktop\New folder>
Python
Python
Python
Python
powershell
Python Deb...
powershell
powershell
powershell
OUTLINE
TIMELINE
Ln 7, Col 44 Spaces: 4 UTF-8 CRLF Python 3.10.4 64-bit

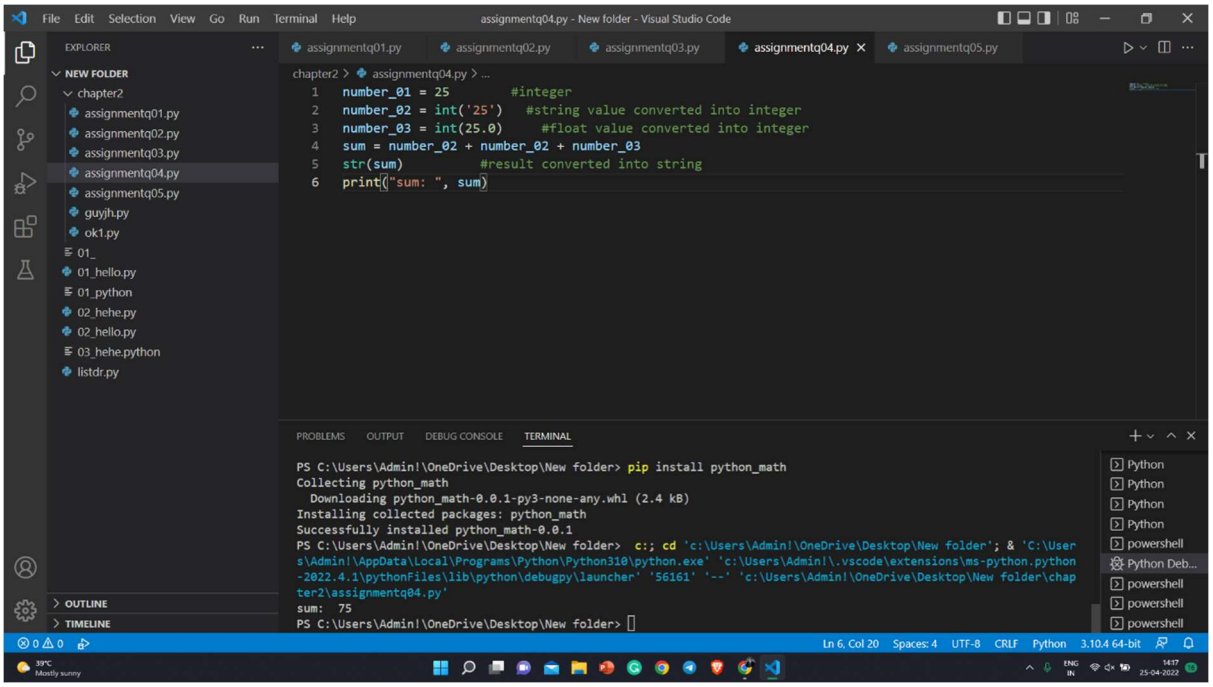
Q2


File Edit Selection View Go Run Terminal Help
assignmentq02.py - New folder - Visual Studio Code
EXPLORER
NEW FOLDER
chapter2
assignmentq01.py
assignmentq02.py
guyjh.py
ok1.py
01_
01_hello.py
01_python
02_hehe.py
02_hello.py
03_hehe.python
listdr.py
assignmentq01.py
assignmentq02.py
chapter2 > assignmentq02.py > ...
1 Gross_income = float(input("Gross income(in $): "))
2 Dependents_in_family = int(input("Number of dependents in family: "))
3 Standard_deduction= 10000
4 Tax_rate = 0.2
5 Deduction_per_dependent = 3000
6 Taxable_income= Gross_income - Standard_deduction - (Deduction_per_dependent*Dependents_in_fam
7 Tax = Taxable_income*Tax_rate
8 print("Taxable_income: ",Taxable_income)
9 print("Tax: ",Tax)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
ter2\assignmentq02.py'
Gross income(in $):
PS C:\Users\Admin!\OneDrive\Desktop\New folder> c:; cd 'c:\Users\Admin!\OneDrive\Desktop\New folder'; & 'C:\User
s\Admin!\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\Admin!\.vscode\extensions\ms-python.python
-2022.4.1\pythonFiles\lib\python\debugpy\launcher' '55960' '--' 'c:\Users\Admin!\OneDrive\Desktop\New folder\chap
ter2\assignmentq02.py'
Gross income(in $): 60000
Number of dependents in family: 3
Taxable_income: 41000.0
Tax: 8200.0
PS C:\Users\Admin!\OneDrive\Desktop\New folder>
Python
Python
Python
Python
powershell
Python Deb...
powershell
powershell
powershell
OUTLINE
TIMELINE
Ln 9, Col 19 Spaces: 4 UTF-8 CRLF Python 3.10.4 64-bit

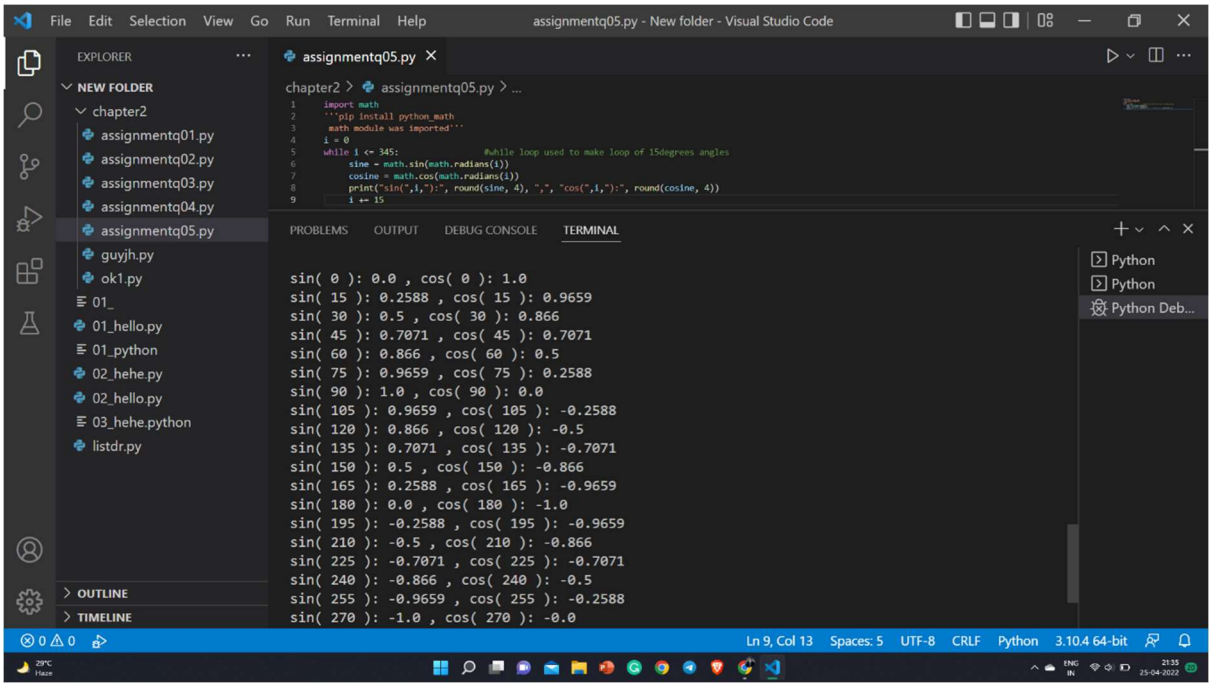
Q3


File Edit Selection View Go Run Terminal Help
assignmentq03.py - New folder - Visual Studio Code
EXPLORER
NEW FOLDER
chapter2
assignmentq01.py
assignmentq02.py
assignmentq03.py
guyjh.py
ok1.py
01_
01_hello.py
01_python
02_hehe.py
02_hello.py
03_hehe.python
listdr.py
assignmentq01.py
assignmentq02.py
assignmentq03.py
chapter2 > assignmentq03.py > ...
1 seconds = int(input("total number of seconds: "))
2 minutes = seconds//60
3 minute_seconds = seconds%60
4 print("hence", seconds, "seconds", "=", minutes, "minutes", minute_seconds,
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
vscode\extensions\ms-python.python-2022.4.1\pythonFiles\lib\python\debugpy\launcher' '56011' '--' 'c:\Users\Admin
!\OneDrive\Desktop\New folder\chapter2\assignmentq03.py'
total number of seconds: 690
hence 690 seconds = 11 minutes 30 seconds
PS C:\Users\Admin!\OneDrive\Desktop\New folder>
Python
Python
Python
Python
powershell
Python Deb...
powershell
powershell
powershell
OUTLINE
TIMELINE
Ln 4, Col 68 Spaces: 4 UTF-8 CRLF Python 3.10.4 64-bit

Q4


File Edit Selection View Go Run Terminal Help
assignmentq04.py - New folder - Visual Studio Code
EXPLORER
NEW FOLDER
chapter2
assignmentq01.py
assignmentq02.py
assignmentq03.py
assignmentq04.py
assignmentq05.py
guyjh.py
ok1.py
01_
01_hello.py
01_python
02_hehe.py
02_hello.py
03_hehe.python
listdr.py
assignmentq01.py
assignmentq02.py
assignmentq03.py
assignmentq04.py
assignmentq05.py
chapter2 > assignmentq04.py > ...
1 number_01 = 25 #integer
2 number_02 = int('25') #string value converted into integer
3 number_03 = int(25.0) #float value converted into integer
4 sum = number_02 + number_02 + number_03
5 str(sum) #result converted into string
6 print("sum: ", sum)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS C:\Users\Admin!\OneDrive\Desktop\New folder> pip install python_math
Collecting python_math
Downloading python_math-0.0.1-py3-none-any.whl (2.4 kB)
Installing collected packages: python_math
Successfully installed python_math-0.0.1
PS C:\Users\Admin!\OneDrive\Desktop\New folder> c:; cd 'c:\Users\Admin!\OneDrive\Desktop\New folder'; & 'C:\User
s\Admin!\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\Admin!\.vscode\extensions\ms-python.python
-2022.4.1\pythonFiles\lib\python\debugpy\launcher' '56161' '--' 'c:\Users\Admin!\OneDrive\Desktop\New folder\chap
ter2\assignmentq04.py'
sum: 75
PS C:\Users\Admin!\OneDrive\Desktop\New folder>
Python
Python
Python
Python
powershell
Python Deb...
powershell
powershell
powershell
OUTLINE
TIMELINE
Ln 6, Col 20 Spaces: 4 UTF-8 CRLF Python 3.10.4 64-bit

Q5


File Edit Selection View Go Run Terminal Help
assignmentq05.py - New folder - Visual Studio Code
EXPLORER
NEW FOLDER
chapter2
assignmentq01.py
assignmentq02.py
assignmentq03.py
assignmentq04.py
assignmentq05.py
guyjh.py
ok1.py
01_
01_hello.py
01_python
02_hehe.py
02_hello.py
03_hehe.python
listdr.py
OUTLINE
TIMELINE
assignmentq05.py
chapter2 > assignmentq05.py > ...
import math
'''pip install python_math
math module was imported'''
i = 0
while i <= 345: #while loop used to make loop of 15degrees angles
sine = math.sin(math.radians(i))
cosine = math.cos(math.radians(i))
print("sin(",i,"):", round(sine, 4), ",", "cos(",i,"):", round(cosine, 4))
i += 15
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
sin(0): 0.0 , cos(0): 1.0
sin(15): 0.2588 , cos(15): 0.9659
sin(30): 0.5 , cos(30): 0.866
sin(45): 0.7071 , cos(45): 0.7071
sin(60): 0.866 , cos(60): 0.5
sin(75): 0.9659 , cos(75): 0.2588
sin(90): 1.0 , cos(90): 0.0
sin(105): 0.9659 , cos(105): -0.2588
sin(120): 0.866 , cos(120): -0.5
sin(135): 0.7071 , cos(135): -0.7071
sin(150): 0.5 , cos(150): -0.866
sin(165): 0.2588 , cos(165): -0.9659
sin(180): 0.0 , cos(180): -1.0
sin(195): -0.2588 , cos(195): -0.9659
sin(210): -0.5 , cos(210): -0.866
sin(225): -0.7071 , cos(225): -0.7071
sin(240): -0.866 , cos(240): -0.5
sin(255): -0.9659 , cos(255): -0.2588
sin(270): -1.0 , cos(270): -0.0
Python
Python
Python Deb...
Ln 9, Col 13 Spaces: 5 UTF-8 CRLF Python 3.10.4 64-bit