

File Edit Selection View Go Run Terminal Help question5.py - Untitled (Workspace) - Visual Studio Code

question1.py question2.py question3.py question4.py question5.py X

python > test1.py > assignment.py > assignment3.py > question5.py > ...

```
1
2 h_atoms= int(input("Number of Hydrogen atoms in the molecule: "))
3 o_atoms= int(input("Number of Oxygen atoms in the molecule: "))
4 c_atoms= int(input("Number of Carbon atoms in the molecule: "))
5 mol_wt= (h_atoms*1.00794) + (o_atoms*15.9994) + (c_atoms*12.0107)
6 print(mol_wt)
```

Ln 6, Col 14 Spaces: 4 UTF-8 CRLF Python 3.10.4 64-bit Go Live

ENG IN 23:47 12-05-2022

question4.py - Untitled (Workspace) - Visual Studio Code

question1.py question2.py question3.py question4.py X question5.py

python > test1.py > assignment.py > assignment3.py > question4.py > ...

```
1 # a)
2 print('a')
3 for i in range(5):
4     print(i)
5 # b)
6 print('b')
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL


Windows PowerShell  
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Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

PS F:\python> python -u "F:\python\test1.py\assignment.py\assignment3.py\question4.py"

a)
0
1
2
3
4
b)
3
4
5
6
7
8
9
c)
4
7
10
d)
15
13
11
9
7
e)
PS F:\python>

Ln 8, Col 13 Spaces: 4 UTF-8 CRLF Python 3.10.4 64-bit Go Live

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 Mechanical Unoff. 2025  
+91 96825 90948: Kisi ke pass air flex  
glasses hain? 🤔

Windows Taskbar

23:47 12-05-2022

question4.py - Untitled (Workspace) - Visual Studio Code

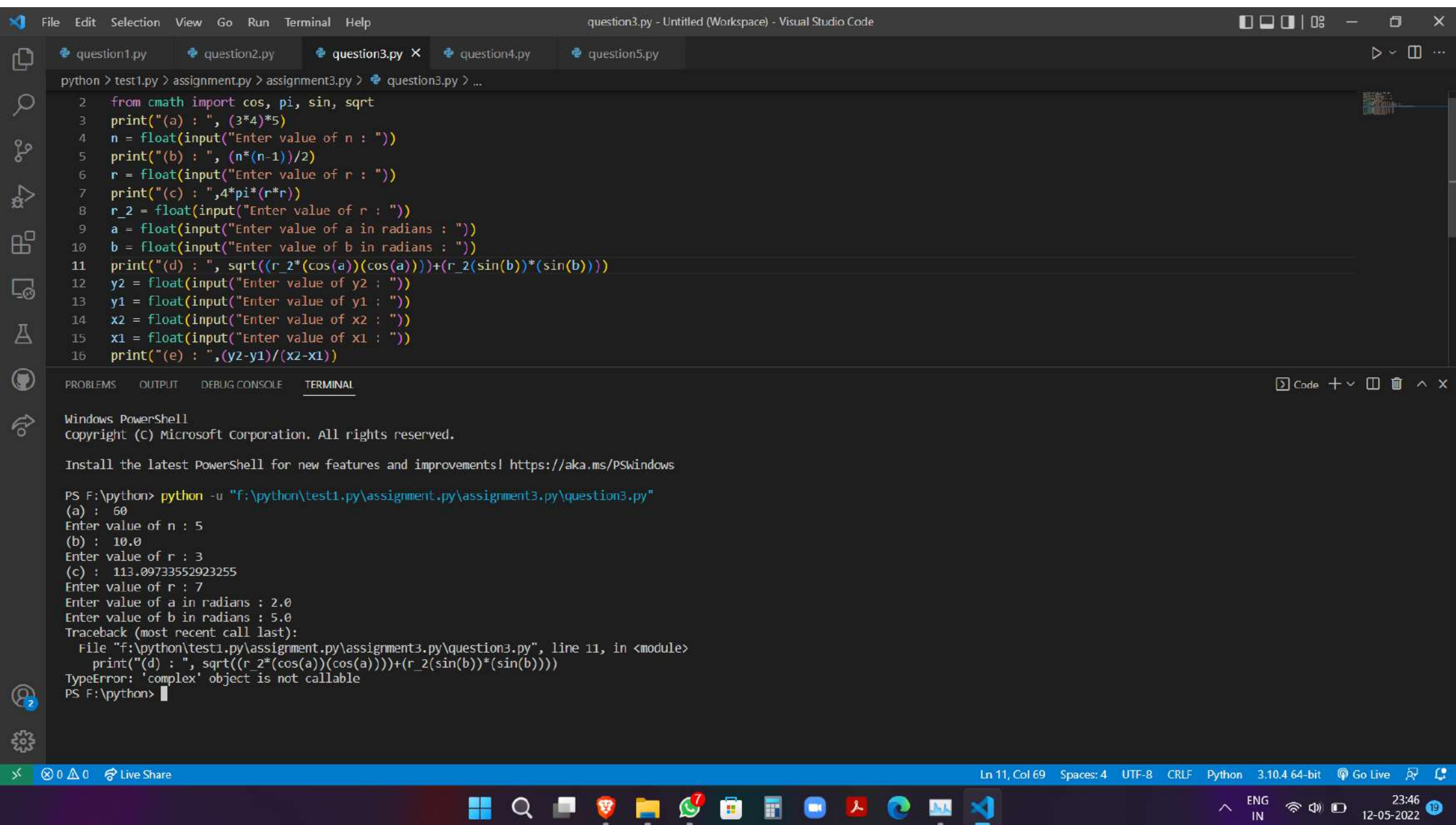
question1.py question2.py question3.py question4.py X question5.py

python > test1.py > assignment.py > assignment3.py > question4.py > ...

```
1 # a)
2 print('a')
3 for i in range(5):
4     print(i)
5 # b)
6 print('b')
7 for i in range(3,10):
8     print(i)
9 # c)
10 print('c')
11 for i in range(4,13,3):
12     print(i)
13 # d)
14 print('d')
15 for i in range(15,5,-2):
16     print(i)
17 # e)
18 print('e')
19 for i in range(5,3): # If a user wants to decrement, then the user needs steps to be a negative number
20     print(i)
21
```

Ln 8, Col 13 Spaces: 4 UTF-8 CRLF Python 3.10.4 64-bit Go Live

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question3.py - Untitled (Workspace) - Visual Studio Code

question1.py question2.py question3.py X question4.py question5.py

python > test1.py > assignment.py > assignment3.py > question3.py > ...

```
1
2 from cmath import cos, pi, sin, sqrt
3 print("(a) : ", (3*4)*5)
4 n = float(input("Enter value of n : "))
5 print("(b) : ", (n*(n-1))/2)
6 r = float(input("Enter value of r : "))
7 print("(c) : ", 4*pi*(r*r))
8 r_2 = float(input("Enter value of r : "))
9 a = float(input("Enter value of a in radians : "))
10 b = float(input("Enter value of b in radians : "))
11 print("(d) : ", sqrt((r_2*(cos(a))*(cos(a)))+(r_2(sin(b))*(sin(b)))))
12 y2 = float(input("Enter value of y2 : "))
13 y1 = float(input("Enter value of y1 : "))
14 x2 = float(input("Enter value of x2 : "))
15 x1 = float(input("Enter value of x1 : "))
16 print("(e) : ", (y2-y1)/(x2-x1))
```

Ln 11, Col 69 Spaces: 4 UTF-8 CRLF Python 3.10.4 64-bit Go Live

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Visual Studio Code interface showing a workspace with multiple Python files and a terminal window.

**Workspace:** question2.py - Untitled (Workspace) - Visual Studio Code

**Files:** question1.py, question2.py, question3.py, question4.py, question5.py

**Code Editor (question2.py):**

```
python > test1.py > assignment.py > assignment3.py > question2.py > ...  
1 a = input('Enter a mathematical expression: ')  
2 print(a, '=', eval(a))
```

**Terminal (Windows PowerShell):**

```
Windows PowerShell  
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows  
  
PS F:\python> python -u "F:\python\test1.py\assignment.py\assignment3.py\question1.py"  
enter the number:-5  
0b101  
PS F:\python> python -u "F:\python\test1.py\assignment.py\assignment3.py\question2.py"  
Enter a mathematical expression: 2+5*15  
2+5*15 = 77  
PS F:\python>
```

**Bottom Bar:** Live Share, Ln 2, Col 21, Spaces: 4, UTF-8, CRLF, Python 3.10.4 64-bit, Go Live, 23:44 12-05-2022

question1.py x question2.py question3.py question4.py question5.py

python > test1.py > assignment.py > assignment3.py > question1.py > ...  
1 numbers = int(input('enter the number:-'))  
2 binary= bin(numbers)  
3 print(binary)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Windows PowerShell  
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PS F:\python> python -u "f:\python\test1.py\assignment.py\assignment3.py\question1.py"  
enter the number:-5  
0b101  
PS F:\python>

Ln 2, Col 20 Spaces: 4 UTF-8 CRLF Python 3.10.4 64-bit Go Live

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