

FileEditSelectionViewGoRunTerminalHelp

question9.py - Untitled (Workspace) - Visual Studio Code

question3.pyquestion2.pyquestion9.py X

python > test1.py > assignment.py > assignment6.py > question9.py > ...

```
1 print("Question 9")
2
3 class py_solution:
4     def is_valid_parenthese(self, str1):
5         stack, pchar = [], {"(": ")", "{": "}", "[": "]"}
6         for parenthese in str1:
7             if parenthese in pchar:
8                 stack.append(parenthese)
9             elif len(stack) == 0 or pchar[stack.pop()] != parenthese:
10                 return False
11         return len(stack) == 0
12
13 print(py_solution().is_valid_parenthese("()"))
14 print(py_solution().is_valid_parenthese("()[{}"))
15 print(py_solution().is_valid_parenthese("[()"))
16
17 |
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALJUPYTER

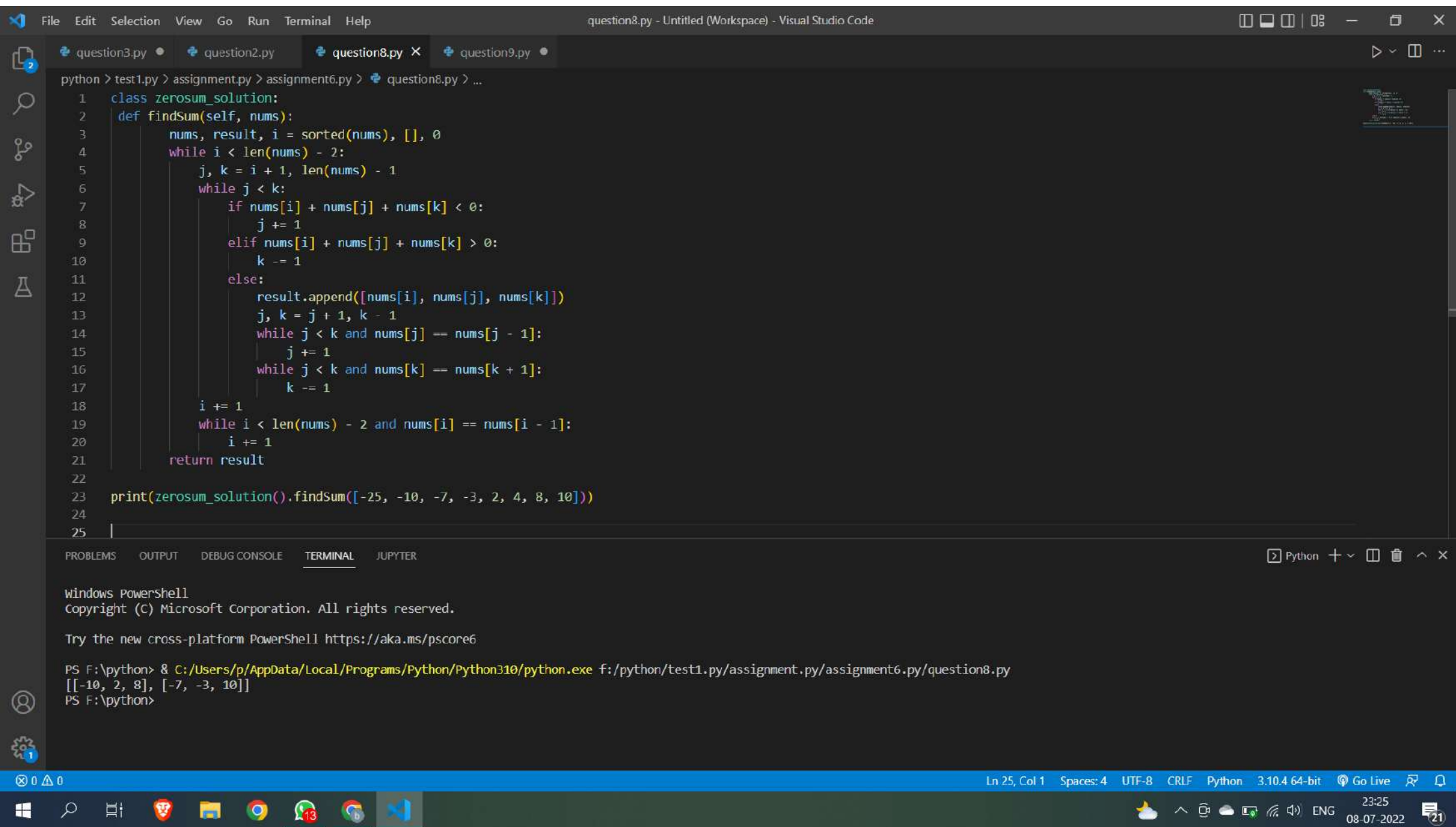
Python + - [] [] ^ X

Windows PowerShell
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PS F:\python> & C:/Users/p/AppData/Local/Programs/Python/Python310/python.exe f:/python/test1.py/assignment.py/assignment6.py/question9.py
Question 9
True
True
False
PS F:\python>

Ln 17, Col 1Spaces: 4UTF-8CRLFPython3.10.4 64-bitGo Live23:2808-07-2022



python > test1.py > assignment.py > assignment6.py > question7.py > ...

```
1 print("Question 7")
2
3 class Student:
4     pass
5 class Marks:
6     pass
7 student1 = Student()
8 marks1 = Marks()
9 print("Checking for instances : ")
10 print(isinstance(student1, Student))
11 print(isinstance(marks1, Student))
12 print(isinstance(marks1, Marks))
13 print(isinstance(student1, Marks))
14 print("Checking whether the said classes are subclasses of the built-in object class or not.")
15 print(issubclass(Student, object))
16 print(issubclass(Marks, object))
17
```

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```
PS F:\python> & C:/Users/p/AppData/Local/Programs/Python/Python310/python.exe f:/python/test1.py/assignment.py/assignment6.py/question7.py
Question 7
Checking for instances :
True
False
True
False
Checking whether the said classes are subclasses of the built-in object class or not.
True
True
PS F:\python>
```

question6.py - Untitled (Workspace) - Visual Studio Code

question3.py • question2.py • question6.py X • question7.py • question8.py • question9.py

```
python > test1.py > assignment.py > assignment6.py > question6.py > ...
1 print("Question 6")
2
3 def student_data(student_id,**kwargs):
4     print("Student ID : ", student_id)
5     if 'student_name' in kwargs:
6         print("Student name : ",kwargs['student_name'])
7     if 'student_class' in kwargs:
8         print("Student class : ",kwargs['student_class'])
9
10 student_data(student_id= '21107080',student_name = 'prakul')
11 print()
12 student_data(student_id= '21107080',student_class = 'Mechanical')
13 print()
14 student_data(student_id= '21107080',student_name = 'prakul',student_class = 'Mechanical')
15 |
```

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```
PS F:\python> & C:/Users/p/AppData/Local/Programs/Python/Python310/python.exe f:/python/test1.py/assignment.py/assignment6.py/question5.py
Question 5
Enter hyphen separated sequence of words : prakul-bhatia
Alphabetically sorted hyphen separated list is :
bhatia-prakul
PS F:\python> & C:/Users/p/AppData/Local/Programs/Python/Python310/python.exe f:/python/test1.py/assignment.py/assignment6.py/question6.py
Question 6
Student ID : 21107080
Student name : prakul

Student ID : 21107080
Student class : Mechanical

Student ID : 21107080
Student name : prakul
Student class : Mechanical
PS F:\python> |
```

Ln 15, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.4 64-bit Go Live

23:24 08-07-2022

question5.py - Untitled (Workspace) - Visual Studio Code

question3.py • question2.py • question5.py X • question6.py • question7.py • question8.py • question9.py

```
python > test1.py > assignment.py > assignment6.py > question5.py > ...
1 print("Question 5")
2
3 user_str = str(input("Enter hyphen separated sequence of words : "))
4 word_list = [n for n in user_str.split("-")] # creating a list of all words after separating them
5 word_list.sort()
6 print("Alphabetically sorted hyphen separated list is : ")
7 print("-".join(word_list))
8
```

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PS F:\python> & C:/Users/p/AppData/Local/Programs/Python/Python310/python.exe f:/python/test1.py/assignment.py/assignment6.py/question5.py
Question 5
Enter hyphen separated sequence of words : prakul-bhatia
Alphabetically sorted hyphen separated list is :
bhatia-prakul
PS F:\python> |

Ln 8, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.4 64-bit Go Live 23:23 08-07-2022

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

question3.py • question2.py question4.py X question5.py • question6.py • question7.py • question8.py • question9.py •

python > test1.py > assignment.py > assignment6.py > question4.py > ...
1 print("Question 4")
2
3 alphabets = "abcdefghijklmnopqrstuvwxyz"
4
5 def ispangram(userstr):
6 for x in alphabets:
7 if x not in userstr.lower():
8 return False
9 return True
10
11 input_str = str(input("Enter string to be checked if pangram or not : "))
12
13 if(ispangram(input_str)==True):
14 print("Yes, it is a pangram.")
15 else:
16 print("No, it is not a pangram.")
17

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PS F:\python> & C:/Users/p/AppData/Local/Programs/Python/Python310/python.exe f:/python/test1.py/assignment.py/assignment6.py/question4.py
Question 4
Enter string to be checked if pangram or not : abcfjdi
No, it is not a pangram.
PS F:\python>

Ln 17, Col 3 Spaces: 4 UTF-8 CRLF Python 3.10.4 64-bit Go Live 23:23 08-07-2022

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

question3.py ...assignment3.py • question2.py • question3.py ...assignment6.py × question4.py • question5.py • question6.py • question7.py • question8.py • question9.py •

```
python > test1.py > assignment.py > assignment6.py > question3.py > ...
1
2
3 from math import factorial
4
5
6 print("Question 3")
7
8 n = int(input("Enter number of rows of Pascal Triangle : "))
9
10 for i in range(n):
11     for j in range(n-i+1):
12         print(end=" ")
13         for j in range(i+1):
14
15             # nCr = n!/((n-r)!*r!)
16             print(factorial(i)//(factorial(j)*factorial(i-j)), end=" ")
17         print()
18
```

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Python + - [] [X] ^ X

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PS F:\python> & C:/Users/p/AppData/Local/Programs/Python/Python310/python.exe f:/python/test1.py/assignment.py/assignment6.py/question3.py
Question 3
Enter number of rows of Pascal Triangle : 5
1
1 1
1 2 1
1 3 3 1
1 4 6 4 1
PS F:\python>

Ln 16, Col 20 Spaces: 4 UTF-8 CRLF Python 3.10.4 64-bit Go Live 23:22 08-07-2022

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

question3.py ...assignment3.py question2.py X question3.py ...assignment6.py question4.py question5.py question6.py question7.py question8.py question9.py

python > test1.py > assignment.py > assignment6.py > question2.py > ...
1 print("Question 2")
2
3 input_str = str(input("Enter input string to check for palindrome : ")).replace(" ", "")
4 reversed_str = input_str[len(input_str):: -1]
5 if (input_str == reversed_str):
6 print("Yes, it is a palindrome.")
7 else:
8 print("No, it is not a palindrome.")

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PS F:\python> & C:/Users/p/AppData/Local/Programs/Python/Python310/python.exe f:/python/test1.py/assignment.py/assignment6.py/question2.py
Question 2
Enter input string to check for palindrome : race car
Yes, it is a palindrome.
PS F:\python>

Ln 8, Col 42 Spaces: 4 UTF-8 CRLF Python 3.10.4 64-bit Go Live 23:22 08-07-2022

question1.py - Untitled (Workspace) - Visual Studio Code

python > test1.py > assignment.py > assignment6.py > question1.py > ...

```
12 n = int(input("Enter number to check if perfect or not : "))
13 numsum = 0
14 for i in range(1,n):
15     if (n%i==0):
16         numsum += i
17     else:
18         continue
19
20 if (numsum==n):
21     print("Yes, it is a perfect number.")
22 else:
23     print("No, it is not a perfect number.")
24
```

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Python + -

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PS F:\python> & C:/Users/p/AppData/Local/Programs/Python/Python310/python.exe f:/python/test1.py/assignment.py/assignment6.py/question1.py
Question 1
Enter number to check if perfect or not : 6
Yes, it is a perfect number.
PS F:\python>

Ln 24, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.4 64-bit Go Live 23:21 08-07-2022