

demo.py - class 1 - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

CLASS 1

assignment_1

5_4_22.py

6_6_22.py

8_6_22.py

12_4_22.py

19_4_22.py

22_4_22.py

27_4_22.py

21107075_assignmen...

21107075_assignmen...

21107075_assignmen...

21107075_assignmen...

21107075_assignmen...

21107075_assignmen...

demo.py

Py_lab_25_4_22.py

tempCodeRunnerFile....

demo.py

demo.py > ...

1 # 1

2 n = int(input("Enter number to check if perfect or not : "))

3 numsum = 0

4 for i in range(1,n):

5 if (n%i==0):

6 numsum += i

7 else:

8 continue

9

10 if (numsum==n):

11 print("It is a perfect number.")

12 else:

13 print("It is not a perfect number.")

PROBLEMS

DEBUG CONSOLE

TERMINAL

OUTPUT

JUPYTER

Windows PowerShell

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PS C:\Coding Files\class 1> python -u "c:\Coding Files\class 1\demo.py"

Enter number to check if perfect or not : 70

It is not a perfect number.

PS C:\Coding Files\class 1>

+

Code

Code

Code

Code

0 0 0

Ln 13, Col 41 Spaces: 4 UTF-8 CRLF Python 3.10.2 64-bit Prettier

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23:51 09-07-2022

FileEditSelectionViewGoRunTerminalHelpdemo.py - class 1 - Visual Studio Code

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demo.py

Py_lab_25_4_22.py

tempCodeRunnerFile....

OUTLINE

TIMELINE

demo.py

demo.py > ...

1# 2

2input_str = str(input("Enter input string to check for palindrome : ")).replace(" ", "")

3reversed_str = input_str[::-1]

4if (input_str==reversed_str):

5| print("It is a palindrome.")

6else:

7| print("It is not a palindrome.")

8

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PS C:\Coding Files\class 1> python -u "c:\Coding Files\class 1\demo.py"

Enter input string to check for palindrome : madam

It is a palindrome.

PS C:\Coding Files\class 1>

Ln 8, Col 1

Spaces: 4

UTF-8

CRLF

Python

3.10.2 64-bit

Prettier

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23:52 09-07-2022

demo.py - class 1 - Visual Studio Code

demo.py x 21107075_assignment6.py

demo.py > ...

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

PROBLEMS DEBUG CONSOLE TERMINAL OUTPUT JUPYTER

Code + - [] [x] ^ x

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PS C:\Coding Files\class 1> python -u "c:\Coding Files\class 1\demo.py"
Enter string to be checked if pangram or not : A quick brown fox jumps over the lazy dog
Yes, it is a pangram.
PS C:\Coding Files\class 1>

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Ln 15, Col 38 Spaces: 4 UTF-8 CRLF Python 3.10.2 64-bit Prettier

ENG IN 23:56 09-07-2022

demo.py - class 1 - Visual Studio Code

demo.py x 21107075_assignment6.py

demo.py > ...
1 # 5
2 user_str = str(input("Enter hyphen separated sequence of words : "))
3 word_list = [n for n in user_str.split("-")]
4 word_list.sort()
5 print("Alphabetically sorted hyphen separated list is :",end= " ")
6 print("-".join(word_list))

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PS C:\Coding Files\class 1> python -u "c:\Coding Files\class 1\demo.py"
Enter hyphen separated sequence of words : green-red-yellow-black-white
Alphabetically sorted hyphen separated list is : black-green-red-white-yellow
PS C:\Coding Files\class 1>

Ln 5, Col 65 Spaces: 4 UTF-8 CRLF Python 3.10.2 64-bit Prettier

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demo.py - class 1 - Visual Studio Code

demo.py x 21107075_assignment6.py

demo.py > ...

```
1 # 8
2 class zerosum_solution:
3     def findSum(self, nums):
4         nums, result, i = sorted(nums), [], 0
5         while i < len(nums) - 2:
6             j, k = i + 1, len(nums) - 1
7             while j < k:
8                 if nums[i] + nums[j] + nums[k] < 0:
9                     j += 1
10                elif nums[i] + nums[j] + nums[k] > 0:
11                    k -= 1
12                else:
13                    result.append([nums[i], nums[j], nums[k]])
14                    j, k = j + 1, k - 1
15                    while j < k and nums[j] == nums[j - 1]:
16                        j += 1
17                    while j < k and nums[k] == nums[k + 1]:
18                        k -= 1
19                i += 1
20                while i < len(nums) - 2 and nums[i] == nums[i - 1]:
21                    i += 1
22            return result
23
24 print(zerosum_solution().findSum([-25, -10, -7, -3, 2, 4, 8, 10]))
```

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Code + -

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PS C:\Coding Files\class 1> python -u "c:\Coding Files\class 1\demo.py"

[[[-10, 2, 8], [-7, -3, 10]]]

PS C:\Coding Files\class 1>

Ln 24, Col 67 Spaces: 4 UTF-8 CRLF Python 3.10.2 64-bit Prettier

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00:02 10-07-2022

demo.py - class 1 - Visual Studio Code

demo.py x 21107075_assignment6.py

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

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PS C:\Coding Files\class 1> python -u "c:\Coding Files\class 1\demo.py"
True
True
False
PS C:\Coding Files\class 1>

Ln 14, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.2 64-bit Prettier

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ENG IN 00:03 10-07-2022