

FileEditSelectionViewGoRunTerminalHelp

6_1.py - Visual Studio Code

EXPLORER

OPEN EDITORS

6_1.py E:\College\python

6_2.py E:\College\python

6_3.py E:\College\python

6_4.py E:\College\python

6_5.py E:\College\python

6_6.py E:\College\python

6_7.py E:\College\python

6_8.py E:\College\python

6_9.py E:\College\python

NO FOLDER OPENED

OUTLINE

TIMELINE

6_1.py

6_2.py

6_3.py

6_4.py

6_5.py

6_6.py

6_7.py

6_8.py

6_9.py

E: > College > python > 6_1.py > ...

```
4
5  num = int(input("Enter a number to check if its perfect or not: "))
6
7  if num < 0:
8      stop
9
10 sum_n= 0
11
12 for i in range(1,num):
13     if num%i == 0:
14         sum_n = sum_n + i
15
16 if sum_n == num:
17     print("It is a perfect number.")
18
19 else:
20     print("The number is not a perfect number.")
21
22
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

JUPYTER

```
> e:; cd 'e:\College\python'; & 'C:\Users\Sachin Singh\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\Sachi
n Singh\.vscode\extensions\ms-python.python-2022.8.0\pythonFiles\lib\python\debugpy\launcher' '62055' '--' 'e:\College\python\6_1.py'
Enter a number to check if its perfect or not: 15
The number is not a perfect number.
PS E:\College\python>
```

powershell

Python De...

Ln 22, Col 1

Spaces: 4

UTF-8

CRLF

Python

3.10.4 64-bit

100%

31°C Partly cloudy

22:15

08-07-2022

6_2.py - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

OPEN EDITORS

6_1.py E:\College\python

6_2.py E:\College\python

6_3.py E:\College\python

6_4.py E:\College\python

6_5.py E:\College\python

6_6.py E:\College\python

6_7.py E:\College\python

6_8.py E:\College\python

6_9.py E:\College\python

NO FOLDER OPENED

OUTLINE

TIMELINE

E: > College > python > 6_2.py > ...

1

2 input_string = input("Enter a string: ")

3 a_string = input_string.replace(" ", "")

4

5 newstring = a_string[::-1]

6

7 if newstring == a_string:

8 | print("Yes, the given string is a palindrome.")

9

10 else:

11 | print("The string is not a palindrome.")

12

13

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

PS E:\College\python>

> e:: cd 'e:\College\python'; & 'C:\Users\Sachin Singh\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\Sachin Singh\.vscode\extensions\ms-python.python-2022.8.0\pythonFiles\lib\python\debugpy\launcher' '62071' '--' 'e:\College\python\6_2.py'

Enter a string: nurses run

Yes, the given string is a palindrome.

PS E:\College\python>

Ln 9, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.4 64-bit

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6_3.py

6_4.py

6_5.py

6_6.py

6_7.py

6_8.py

6_9.py

EXPLORER

OPEN EDITORS

6_3.py E:\College\python

6_4.py E:\College\python

6_5.py E:\College\python

6_6.py E:\College\python

6_7.py E:\College\python

6_8.py E:\College\python

6_9.py E:\College\python

NO FOLDER OPENED

OUTLINE

TIMELINE

E: > College > python > 6_3.py > ...
1
2 from math import factorial
3
4 n = int(input("Enter the number of rows for pascal's triangle: "))
5
6 for i in range(n):
7 for j in range(n-i+1):
8 print(end=" ")
9
10 for j in range(i+1):
11 print(factorial(i)//(factorial(j)*factorial(i-j)), end=" ")
12
13 print()

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

JUPYTER

PS E:\College\python> e::; cd 'e:\College\python'; & 'C:\Users\Sachin Singh\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\Sachi
n Singh\.vscode\extensions\ms-python.python-2022.8.0\pythonFiles\lib\python\debugpy\launcher' '62077' '--' 'e:\College\python\6_3.py'
Enter the number of rows for pascal's triangle: 4
1
1 1
1 2 1
1 3 3 1
PS E:\College\python> |

powershell

Python De...

Ln 1, Col 1

Spaces: 4

UTF-8

CRLF

Python

3.10.4 64-bit

100%

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ENG

22:15

08-07-2022

FileEditSelectionViewGoRunTerminalHelp6_7.py - Visual Studio Code

EXPLORER

OPEN EDITORS

6_4.py E:\College\python
6_5.py E:\College\python
6_6.py E:\College\python
6_7.py E:\College\python
6_8.py E:\College\python
6_9.py E:\College\python

NO FOLDER OPENED
OUTLINE
TIMELINE

E: > College > python > 6_7.py > ...

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

PROBLEMSOUTPUTDEBUG CONSOLETERMINALJUPYTER

PS E:\College\python> e:: cd 'e:\College\python'; & 'C:\Users\Sachin Singh\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\Sachin Singh\.vscode\extensions\ms-python.python-2022.8.0\pythonFiles\lib\python\debugpy\launcher' '62089' '--' 'e:\College\python\6_7.py'
True
False
True
False

Check whether the said classes are subclasses of the built-in object class or not.
True
True
PS E:\College\python>

+ ^ x
powershell
Python De...

Ln 14, Col 34Spaces: 4UTF-8CRLFPython3.10.4 64-bit

Type here to search

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FileEditSelectionViewGoRunTerminalHelp6_4.py - Visual Studio Code

EXPLORER

OPEN EDITORS

6_4.py E:\College\python
6_5.py E:\College\python
6_6.py E:\College\python
6_8.py E:\College\python
6_9.py E:\College\python

NO FOLDER OPENED

OUTLINE

TIMELINE

6_4.py

E: > College > python > 6_4.py > ...

1
2 from tracemalloc import stop
3
4 str = input("Enter a string to check for anagram: ")
5 str = str.lower()
6
7 alphabet = "abcdefghijklmnopqrstuvwxyz"
8 alpha_list = list(alphabet)
9
10
11
12 for i in alpha_list:
13 if i not in str.lower():
14 print("No")
15 else:
16 print('Yes')
17
18

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

JUPYTER

PS E:\College\python> e::; cd 'e:\College\python'; & 'C:\Users\Sachin Singh\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\Sachin Singh\.vscode\extensions\ms-python.python-2022.8.0\pythonFiles\lib\python\debugpy\launcher' '62099' '--' 'e:\College\python\6_4.py'
Enter a string to check for anagram: the quick brown fox jumps over the lazy dog
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes
Yes

0 0 0

Type here to search

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08-07-2022

FileEditSelectionViewGoRunTerminalHelp

6_5.py - Visual Studio Code

EXPLORER

OPEN EDITORS

6_5.py E:\College\python

6_6.py E:\College\python

6_8.py E:\College\python

6_9.py E:\College\python

NO FOLDER OPENED

OUTLINE

TIMELINE

6_5.py

E: > College > python > 6_5.py > ...

1

2 inp = input("Enter a string: ")

3 ans = inp.split('-')

4 ans.sort()

5 print('-'.join(ans))

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

JUPYTER

red black blue cat apple

PS E:\College\python>

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Ln 5, Col 21

Spaces: 4

UTF-8

CRLF

Python

3.10.4 64-bit

100%

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ENG

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08-07-2022

FileEditSelectionViewGoRunTerminalHelp

6_6.py - Visual Studio Code

EXPLORER

6_6.py6_8.py6_9.py

OPEN EDITORS

6_6.py E:\College\python6_8.py E:\College\python6_9.py E:\College\python

NO FOLDER OPENED

OUTLINE

TIMELINE

E: > College > python > 6_6.py > ...

1

2class student_data:

3def __init__(self,student_id,student_name,student_class):

4self.student_id = student_id

5self.student_name = student_name

6self.student_class = student_class

7print (f'Student ID: {student_id}\nStudent name: {student_name}\nStudent class: {student_class}')

8

9

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

JUPYTER

red black blue cat apple

PS E:\College\python> e:: cd 'e:\College\python'; & 'C:\Users\Sachin Singh\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\Sachin Singh\.vscode\extensions\ms-python.python-2022.8.0\pythonFiles\lib\python\debugpy\launcher' '62121' '--' 'e:\College\python\6_6.py'

PS E:\College\python> e:: cd 'e:\College\python'; & 'C:\Users\Sachin Singh\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\Sachin Singh\.vscode\extensions\ms-python.python-2022.8.0\pythonFiles\lib\python\debugpy\launcher' '62133' '--' 'e:\College\python\6_6.py'

PS E:\College\python>

Ln 9, Col 1

Spaces: 4

UTF-8

CRLF

Python

3.10.4 64-bit

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08-07-2022

FileEditSelectionViewGoRunTerminalHelp6_8.py - Visual Studio Code

EXPLORER

OPEN EDITORS

6_8.py E:\College\python

6_9.py E:\College\python

NO FOLDER OPENED

OUTLINE

TIMELINE

6_8.py

6_9.py

E: > College > python > 6_8.py > ...

```
1
2 def findTriplets(arr, n):
3
4     found = False
5     for i in range(0, n-2):
6
7         for j in range(i+1, n-1):
8
9             for k in range(j+1, n):
10
11                 if (arr[i] + arr[j] + arr[k] == 0):
12                     print(arr[i], arr[j], arr[k])
13                     found = True
14
15
16
17     if (found == False):
18         print(" not exist ")
19
20 arr = [0, -1, 2, -3, 1]
21 n = len(arr)
22 findTriplets(arr, n)
23
24
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

JUPYTER

n Singh\.vscode\extensions\ms-python.python-2022.8.0\pythonFiles\lib\python\debugpy\launcher' '62133' '--' 'e:\College\python\6_6.py'
PS E:\College\python> e;; cd 'e:\College\python'; & 'C:\Users\Sachin Singh\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\Sachi
n Singh\.vscode\extensions\ms-python.python-2022.8.0\pythonFiles\lib\python\debugpy\launcher' '62138' '--' 'e:\College\python\6_8.py'
0 -1 1
2 -3 1
PS E:\College\python>

Ln 22, Col 21 Spaces: 4 UTF-8 CRLF Python 3.10.4 64-bit

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FileEditSelectionViewGoRunTerminalHelp6_9.py - Visual Studio Code

EXPLORER

6_9.py E:\College\python

NO FOLDER OPENED

OUTLINE

TIMELINE

6_9.py

E: > College > python > 6_9.py > ...

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

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

JUPYTER

PS E:\College\python> e::; cd 'e:\College\python'; & 'C:\Users\Sachin Singh\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\Sachin Singh\.vscode\extensions\ms-python.python-2022.8.0\pythonFiles\lib\python\debugpy\launcher' '62143' '--' 'e:\College\python\6_9.py'

True

False

True

PS E:\College\python>

Ln 15, Col 1

Spaces: 4

UTF-8

CRLF

Python

3.10.4 64-bit

100%

31°C Partly cloudy

ENG

22:18

08-07-2022