

demo.py - class 1 - Visual Studio Code

21107075_assignment5.py ukbu.py demo.py

demo.py > ...

```
1 # 1
2 string= input('Enter the string to be reversed: ')
3 i=len(string)-1
4 rev_string=''
5 while i>-1:
6     rev_string= rev_string+string[i]
7     i=i-1
8 print(f'The reversed string is- {rev_string}')
```

PROBLEMS DEBUG CONSOLE TERMINAL OUTPUT

h occurs 1 time(s)
e occurs 2 time(s)
a occurs 2 time(s)
l occurs 1 time(s)
t occurs 1 time(s)
q occurs 1 time(s)
tpython occurs 1 time(s)
-u occurs 1 time(s)
"c:\Coding occurs 1 time(s)
Files\class occurs 1 time(s)
1\demo.py" occurs 1 time(s)
PS C:\Coding Files\class 1> python -u "c:\Coding Files\class 1\demo.py"
Enter the string to be reversed: Hello World
The reversed string is- dlrow olleH
PS C:\Coding Files\class 1>

Code
Code
Code
Code
Python

Ln 9, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.2 64-bit Prettier

36°C Cloudy 00:06 16-06-2022

demo.py - class 1 - Visual Studio Code

21107075_assignment5.pyukbudemo.py

demo.py > ...
1 # 2
2 user_range1= int(input('Specify the range for which the divisibles are to be printed- '))
3 num= int(input('Specify the number for which it\'s divisibles are to be printed- '))
4 for i in range(user_range1+1):
5 if i%num==0:
6 print(i)
7

PROBLEMSDEBUG CONSOLETERMINALOUTPUTCode

Windows PowerShell
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PS C:\Coding Files\class 1> python -u "C:\Coding Files\class 1\demo.py"
Specify the range for which the divisibles are to be printed- 40
Specify the number for which it's divisibles are to be printed- 5
0
5
10
15
20
25
30
35
40
PS C:\Coding Files\class 1>

Ln 7, Col 9Spaces: 4UTF-8CRLFPython3.10.2 64-bitPrettier

36°C Cloudy00:0716-06-2022

demo.py - class 1 - Visual Studio Code

21107075_assignment5.pyukbudemo.py

demo.py > ...
1 # 3
2 import math
3 a=int(input("Enter first side: "))
4 b=int(input("Enter second side: "))
5 c=int(input("Enter third side: "))
6 s=(a+b+c)/2
7 area=math.sqrt(s*(s-a)*(s-b)*(s-c))
8 if a+b>c and a+c>b and b+c>a:
9 print("Area of the triangle is:",round(area,2))
10 else:
11 print('The sides are invalid.')

PROBLEMSDEBUG CONSOLETERMINALOUTPUT

Code

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PS C:\Coding Files\class 1> python -u "c:\Coding Files\class 1\demo.py"
Enter first side: 23
Enter second side: 24
Enter third side: 25
Area of the triangle is: 248.55
PS C:\Coding Files\class 1>

Ln 9, Col 36Spaces: 4UTF-8CRLFPython3.10.2 64-bitPrettier

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demo.py - class 1 - Visual Studio Code

21107075_assignment5.pyukbudemo.py

demo.py > ...
1 # 4
2 for i in range(1,5):
3 for j in range(i):
4 print ('* ', end="")
5 print('')
6
7 for i in range(5,0,-1):
8 for j in range(i):
9 print('* ', end="")
10 print('']

PROBLEMSDEBUG CONSOLETERMINALOUTPUT

Code

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

PS C:\Coding Files\class 1>

<000

Ln 10, Col 14Spaces: 4UTF-8CRLFPython3.10.2 64-bitPrettier

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demo.py - class 1 - Visual Studio Code

21107075_assignment5.pyukbudemo.py

demo.py > ...
1 # 5
2 rows= int(input('Number of rows: '))
3 asciichr = 65
4
5 for i in range(0,rows):
6 for j in range(0,i+1):
7 char = chr(asciichr)
8 print(char,end="")
9 if asciichr<=89:
10 asciichr += 1
11 else:
12 asciichr -= 26
13 asciichr +=1
14 print()

PROBLEMSDEBUG CONSOLETERMINALOUTPUT

Code

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PS C:\Coding Files\class 1> python -u "c:\Coding Files\class 1\demo.py"
Number of rows: 7
A
BC
DEF
GHIJ
KLMNO
PQRSTU
VWXYZAB
PS C:\Coding Files\class 1>

Ln 14, Col 12Spaces: 4UTF-8CRLFPython3.10.2 64-bitPrettier

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ENG
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16-06-2022

demo.py - class 1 - Visual Studio Code

21107075_assignment5.pyukbudemo.py

demo.py > ...
1 # 6
2 user_range = int(input("Enter the range: "))
3
4 print("The Prime Numbers in the range are: ")
5 for number in range(user_range + 1):
6 if number > 1:
7 for i in range(2, number):
8 if (number % i) == 0:
9 break
10 else:
11 print(number)

PROBLEMSDEBUG CONSOLETERMINALOUTPUT

Code

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PS C:\Coding Files\class 1> python -u "c:\Coding Files\class 1\demo.py"
Enter the range: 20
The Prime Numbers in the range are:
2
3
5
7
11
13
17
19
PS C:\Coding Files\class 1>

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Ln 11, Col 27Spaces: 4UTF-8CRLFPython3.10.2 64-bitPrettier

36°C Cloudy00:1016-06-2022

demo.py - class 1 - Visual Studio Code

21107075_assignment5.pyukbudemo.py

demo.py > ...
1 # 7
2 required_nums=[]
3 for i in range(1,501):
4 if i%7==0 and i%11==0:
5 required_nums.append(i)
6
7 print(f'The numbers which are multiples of 7 and divisible by 11 are- {required_nums}')

PROBLEMSDEBUG CONSOLETERMINALOUTPUT

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PS C:\Coding Files\class 1> python -u "c:\Coding Files\class 1\demo.py"
The numbers which are multiples of 7 and divisible by 11 are- [77, 154, 231, 308, 385, 462]
PS C:\Coding Files\class 1>

<000

Ln 8, Col 1Spaces: 4UTF-8CRLFPython3.10.2 64-bitPrettier

36°C Cloudy00:11 16-06-2022

Visual Studio Code interface showing a Python script named `demo.py` in the editor. The script processes a list of 10 integers entered by the user, categorizing them into positive, negative, even, and odd numbers, and also counts the frequency of each number.

```
demo.py > ...
1  # 8
2  user_list1= list(map(int,input('Enter 10 elements of list separated by a single space: ').split()))
3  positive_nums= []
4  negative_nums= []
5  even_nums= []
6  odd_nums= []
7  for num in user_list1:
8      if num>0:
9          positive_nums.append(num)
10     elif num<0:
11         negative_nums.append(num)
12     if num%2==0:
13         even_nums.append(num)
14     elif num%2!=0:
15         odd_nums.append(num)
16 # a.
17 print('The positive numbers in the list are- ', positive_nums)
18 # b.
19 print('The negative numbers in the list are- ', negative_nums)
20 # c.
21 print('The odd numbers in the list are- ', odd_nums)
22 # d.
23 print('The even numbers in the list are- ', even_nums)]
24 # e.
25 count= {}
26 for num in user_list1:
27     if num not in count:
28         count[num]=1
29     else:
30         count[num] = count[num] + 1
31 for key in count:
32     print(f'{key} occurs {count[key]} time(s)')
```

The status bar at the bottom indicates the current position is Line 23, Column 55, with 4 spaces. The encoding is UTF-8, line endings are CRLF, and the interpreter is Python 3.10.2 64-bit. The Prettier formatter is active. The system tray shows a temperature of 36°C, Cloudy weather, and the date/time is 00:12 on 16-06-2022.

demo.py - class 1 - Visual Studio Code

21107075_assignment5.py ukbu.py demo.py X

```
demo.py > ...
1 # 8
2 user_list1= list(map(int,input('Enter 10 elements of list separated by a single space: ').split()))
3 positive_nums= []
4 negative_nums= []
5 even_nums= []
6 odd_nums= []
7 for num in user_list1:
```

PROBLEMS DEBUG CONSOLE TERMINAL OUTPUT

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

Enter 10 elements of list separated by a single space: 2 3 15 6 -1 -5 23 -9 -1 10

The positive numbers in the list are- [2, 3, 15, 6, 23, 10]

The negative numbers in the list are- [-1, -5, -9, -1]

The odd numbers in the list are- [3, 15, -1, -5, 23, -9, -1]

The even numbers in the list are- [2, 6, 10]

2 occurs 1 time(s)

3 occurs 1 time(s)

15 occurs 1 time(s)

6 occurs 1 time(s)

-1 occurs 2 time(s)

-5 occurs 1 time(s)

23 occurs 1 time(s)

-9 occurs 1 time(s)

10 occurs 1 time(s)

PS C:\Coding Files\class 1> |

Ln 23, Col 55 Spaces: 4 UTF-8 CRLF Python 3.10.2 64-bit Prettier

36°C Cloudy 00:15 16-06-2022

demo.py - class 1 - Visual Studio Code

21107075_assignment5.pyukbudemo.py

demo.py > ...
1 # 9
2 count= {}
3 user_list= input('Enter the elements of list separated by a single space: ').split()
4 # print(user_list)
5 for word in user_list:
6 if word not in count:
7 count[word]=1
8 else:
9 count[word] = count[word] + 1
10 for key in count:
11 print(f'{key} occurs {count[key]} time(s)')

PROBLEMSDEBUG CONSOLETERMINALOUTPUT

Code

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PS C:\Coding Files\class 1> python -u "c:\Coding Files\class 1\demo.py"
Enter the elements of list separated by a single space: hello world dhruv hello goyal world
hello occurs 2 time(s)
world occurs 2 time(s)
dhruv occurs 1 time(s)
goyal occurs 1 time(s)
PS C:\Coding Files\class 1>

Ln 5, Col 22Spaces: 4UTF-8CRLFPython3.10.2 64-bitPrettier

31°C
Haze

00:16
16-06-2022