Dashboard / My courses / CD19411-PPD-2022 / WEEK_04-Iteration Control Structures-LOOPING / WEEK-04_CODING

Started on	Wednesday, 13 March 2024, 11:05 AM
State	Finished
Completed on	Saturday, 30 March 2024, 8:23 PM
Time taken	17 days 9 hours
Marks	4.00/5.00
Grade	**40.00** out of 50.00 (**80**%)
Name	AVULA SNEYA DRITI 2022-CSD-A

Question **1**

Correct

Mark 1.00 out of 1.00

Write a program to find the count of ALL digits in a given number N. The number will be passed to the program as an input of type int.

Assumption: The input number will be a positive integer number>= 1 and<= 25000.

For e.g.

If the given number is 292, the function should return 3 because there are 3 digits in this number

If the given number is 1015, the function should return 4 because there are 4 digits in this number

For example:

InputResult

292 3

10154

For example:

Input	Result
293	3

Answer: (penalty regime: 0 %)

```
n=int(input())
term=str(n)
count=len(term)
print(count)
```

	Input	Expected	Got	
✓	293	3	3	✓
✓	6788	4	4	✓
✓	52321	5	5	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Incorrect

Mark 0.00 out of 1.00

A number is stable if each digit occur the same number of times.i.e, the frequency of each digit in the number is the same. For e.g. 2277,4004,11,23,583835,1010 are examples for stable numbers.
Similarly, a number is unstable if the frequency of each digit in the number is NOT same.

Sample Input:

2277

Sample Output:

Stable Number

Sample Input 2:

121

Sample Output 2:

Unstable Number

For example:

Input	Result
2277	Stable Number

Answer: (penalty regime: 0 %)

```
def is_stable_number():
    number=int(input())
    # Count the frequency of each digit
    digit_count = {}
    for digit in str(number):
        digit_count[digit] = digit_count.get(digit, 0) + 1

    # Check if all frequencies are the same
    frequencies = set(digit_count.values())
    if len(frequencies) == 1:
        print ("Stable Number")
    else:
        print ("Unstable Number")
    print(is_stable_number(number))

```

	Input	Expected	
✘	9988	Stable Number	✘

Some hidden test cases failed, too.
Your code must pass all tests to earn any marks. Try again.

Incorrect

Marks for this submission: 0.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

In this exercise you will create a program that computes the average of a collection of values entered by the user. The user will enter 0 as a sentinel value to indicate that no further values will be provided. Your program should display an appropriate error message if the first value entered by the user is 0.

Hint: Because the 0 marks the end of the input it should not be included in the average.

Sample Input

1

2

3

4

5

0

The average is 3.0.

Answer: (penalty regime: 0 %)

```
total=0
count=0
n=float(input())
while (n!=0):
    total+=n
    count+=1
    n=float(input())
avg=total/count
print("The average is {0:.1f}.".format(avg))
```

	Input	Expected	Got	
✓	1 2 3 4 5 0	The average is 3.0.	The average is 3.0.	✓
✓	11 22 33 44 55 0	The average is 33.0.	The average is 33.0.	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

Determine the factors of a number (i.e., all positive integer values that evenly divide into a number).

For example:

Input	Result
20	1 2 4 5 10 20

Answer: (penalty regime: 0 %)

```
a=int(input())
for i in range (1,a+1):
    if(a%i==0):
        print(i,end=" ")
```

	Input	Expected	Got	
✓	20	1 2 4 5 10 20	1 2 4 5 10 20	✓
✓	5	1 5	1 5	✓
✓	13	1 13	1 13	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **5**

Correct

Mark 1.00 out of 1.00

Write a program to find the sum of the series 1 +11 + 111 + 1111 + . . . + n terms (n will be given as input from the user and sum will be the output)

Sample Test Cases

Test Case 1

Input

4

Output

1234

Explanation:

```
as input is 4, have to take 4 terms.
```

```
1 + 11 + 111 + 1111
```

Test Case 2

Input

6

Output

123456

For example:

Input	Result
3	123

Answer: (penalty regime: 0 %)

```
n=int(input())
term=1
sum=0
for i in range(n):
    sum+=term
    term=term*10 +1

print(sum)
```

	Input	Expected	Got	
✓	1	1	1	✓
✓	3	123	123	✓
✓	4	1234	1234	✓
✓	7	1234567	1234567	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

◄ Week-04_MCQ

Jump to...

WEEK-04-Extra ►