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

Started on	Monday, 25 March 2024, 9:22 AM
State	Finished
Completed on	Monday, 25 March 2024, 9:44 AM
Time taken	21 mins 24 secs
Marks	5.00/5.00
Grade	50.00 out of 50.00 (100 %)
Name	ADHITHYA PG 2022-CSD-A

```
Question 1
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 %)

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

Passed all tests! 🗸

Correct

Question 2
Correct
Mark 1.00 out of 1.00

Write a program to check whether a given number is a perfect number or not.

Perfect number is a positive number which sum of all positive divisors excluding that number is equal to that number.

For example, 6 is perfect number since divisor of 6 are 1, 2 and 3.

Sum of its divisor is 1 + 2 + 3 = 6

Sample Test Cases

Test Case 1

Input

6

Output

YES

Test Case 2

45

Output

NO

For example:

Input	Result
6	YES

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	6	YES	YES	~

	Input	Expected	Got	
~	45	NO	N0	~
~	496	YES	YES	~
~	123	NO	NO	~

Passed all tests! 🗸

Correct

Question **3**Correct

Mark 1.00 out of 1.00

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

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

For e.a.

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

1015 4

For example:

Input	Result
293	3

Answer: (penalty regime: 0 %)

```
n=int(input())
count=0
while(n>0):
count+=1
n=n//10
print(count)
```

```
        Input
        Expected
        Got

        ✓
        293
        3
        3

        ✓
        6788
        4
        4
        ✓

        ✓
        52321
        5
        5
        ✓
```

Passed all tests! ✓

Correct

Question 4

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 %)

	Input	Expected	Got	
~	1	1	1	~
~	3	123	123	~

	Input	Expected	Got	
~	4	1234	1234	~
~	7	1234567	1234567	~

Passed all tests! 🗸

Correct

Question **5**Correct
Mark 1.00 out of 1.00

You are choreographing a circus show with various animals. For one act, you are given two kangaroos on a number line ready to jump in the positive direction.

- •The first kangaroo starts at position x1 and moves at a speed v1 meters per jump.
- •The second kangaroo starts at position x2 and moves at a speed of v2 meters per jump and x2 > x1
- •You have to figure out to get both kangaroos at the same position at the same time as part of the show before k jumps. If it is possible, return YES, otherwise return NO.

Input Format:

x1-position of kangaroo1

v1-Speed of kangaroo1

x2-position of kangaroo2

v2-Speed of kangaroo2

k-jumps

Output Format:

Both kangaroos are at the same position within k jumps, YES, otherwise NO.

For example:

Input	Result
0	YES
3	
4	
2	
6	

Answer: (penalty regime: 0 %)

```
x1=int(input())
   v1=int(input())
2
3
   x2=int(input())
    v2=int(input())
4
5
    k=int(input())
6
    value=v1*v2
7
    if(value==k):
8
        print("YES")
9
    else:
        print("NO")
10
```

	Input	Expected	Got	
~	0	YES	YES	~
	3			
	4			
	2			
	6			
~	0	N0	N0	~
	3			
	2			
	4			
	8			

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

■ Week-04_MCQ

Jump to...

WEEK-04-Extra ▶