Started on	Wednesday, 13 March 2024, 11:05 AM
State	Finished
Completed on	Monday, 25 March 2024, 3:42 PM
Time taken	12 days 4 hours
Marks	5.00/5.00
Grade	**50.00** out of 50.00 (**100**%)
Name	LIVIA MARY SEBASTIAN 2022-CSD-A

Question **1**

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 %)

```python
1  a=int(input())
2  for i in range(1,a+1):
3      if(a%i==0):
4          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 **2**

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 %)

```
1   total=0
2   count=0
3   n=float(input())
4   while (n!=0):
5       total+=n
6       count+=1
7       n=float(input())
8   avg=total/count
9   print("The average is {0:.1f}.".format(avg))
10
11
```

	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 **3**

Correct

Mark 1.00 out of 1.00

Strong Number:

Strong number is a special number whose sum of factorial of digits is equal to the original number.

For example: 145 is strong number. Since, 1! + 4! + 5! = 145.

Write a program to find whether the given number is a Strong Number or not.

Input Format:

The Input consists of a single integer n.

Output Format:

Output consists of a single word 'Yes' or 'No'.

Sample Input 1:

145

Sample Output 1:

Yes

Answer: (penalty regime: 0 %)

```
1  n=int(input())
2  temp=n
3  sum=0
4  while (n>0):
5      dig=n%10
6      fact=1
7      for i in range(2,dig+1):
8          fact*=i
9      sum +=fact
10     n//=10
11 if temp==sum:
12     print("Yes")
13 else:
14     print("No")
```

	Input	Expected	Got	
✔	145	Yes	Yes	✔
✔	40585	Yes	Yes	✔
✔	4321	No	No	✔
✔	2	Yes	Yes	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

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 %)

```
1  n=int(input())
2  term=1
3  sum=0
4  for i in range(n):
5      sum+=term
6      term=term*10 +1
7
8  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.

Question **5**

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

1015 4

For example:

Input	Result
293	3

Answer: (penalty regime: 0 %)

```
1  n=int(input())
2  term=str(n)
3  count=len(term)
4  print(count)
5
6
```

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

Passed all tests! ✔

Correct
Marks for this submission: 1.00/1.00.

◄ Week-04_MCQ

Jump to...

WEEK-04-Extra ►