Started on	Wednesday, 13 March 2024, 9:07 PM
State	Finished
Completed on	Wednesday, 13 March 2024, 10:03 PM
Time taken	56 mins 3 secs
Marks	5.00/5.00
Grade	**50.00** out of 50.00 (**100**%)
Name	ABINAUV R 2022-CSD-A

Question **1**

Correct

Mark 1.00 out of 1.00

Write a program that reads a positive integer, n, from the user and then displays the sum of all of the integers from 1 t

Sample Input

10

Sample Output

The sum of the first 10 positive integers is 55.0

For example:

Input	Result
10	The sum of the first 10 positive integers is 55.0

Answer: (penalty regime: 0 %)

```
n = int(input())
for i in range(1,n+1):
    x = (n*(n+1))/2
print("The sum of the first {0} positive integers is {1:.1f}".format(n,x))
```

	Input	Expected	Got
✔	10	The sum of the first 10 positive integers is 55.0	The sum of the first 10 positive integers i
✔	20	The sum of the first 20 positive integers is 210.0	The sum of the first 20 positive integers i

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

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 %)

```
a = int(input())
b = 0
for i in range(1,a):
    if(a%i==0):
        b=b+i
if(b==a):
    print("YES")
else:
    print("NO")
```

	Input	Expected	Got	
✔	6	YES	YES	✔
✔	45	NO	NO	✔
✔	496	YES	YES	✔
✔	123	NO	NO	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

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 u
as a sentinel value to indicate that no further values will be provided. Your program should display an appropriate erro
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 %)

```
sum = 0
count = 0
while True:
    n = int(input())
    if(n==0 and count==0):
        print("Error")
        break
    if(n==0):
        break
    sum += n
    count += 1
if(count>0):
    avg = sum/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.	✔

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 %)

```
n = int(input())
for i in range(1,n+1):
    if(n%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 use 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())
sum = 0
x = 1
for i in range(n):
    sum += x
    x = (x*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...

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