Started on	Thursday, 13 February 2025, 4:48 PM
State	Finished
Completed on	Thursday, 13 February 2025, 4:58 PM
Time taken	9 mins 55 secs
Grade	**10.00** out of 10.00 (**100**%)

Question **1**

Correct

Mark 2.00 out of 2.00

⚑ Flag question

Write a Python Program to print the fibonacci series upto n_terms using Recursion.

For example:

Input	Result
10	Fibonacci series: 0 1 1 2 3 5 8 13 21 34
5	Fibonacci series: 0 1 1 2 3
7	Fibonacci series: 0 1 1 2 3 5 8

Answer: (penalty regime: 0 %)

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	Input	Expected	Got	
	10	Fibonacci series: 0 1 1 2 3 5 8 13 21 34	Fibonacci series: 0 1 1 2 3 5 8 13 21 34	
	5	Fibonacci series: 0 1 1 2 3	Fibonacci series: 0 1 1 2 3	
	7	Fibonacci series: 0 1 1 2 3 5	Fibonacci series: 0 1 1 2 3 5	

		5 8	5 8	
	9	Fibonacci series: 0 1 1 2 3 5 8 13 21	Fibonacci series: 0 1 1 2 3 5 8 13 21	
	11	Fibonacci series: 0 1 1 2 3 5 8 13 21 34 55	Fibonacci series: 0 1 1 2 3 5 8 13 21 34 55	

Passed all tests!

Correct
Marks for this submission: 2.00/2.00.

Question **2**
Correct
Mark 2.00 out of 2.00
⚐ Flag question

Write a Program to Create a recursive function to reverse a string.

For example:

Input	Result
desserts	stressed
knits	stink

Answer: (penalty regime: 0 %)

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	Input	Expected	Got	
	desserts	stressed	stressed	
	knits	stink	stink	
	Regal	lageR	lageR	
	pupils	slipup	slipup	
	smart	trams	trams	

Passed all tests!

Correct
Marks for this submission: 2.00/2.00.

Question **3**
Correct
Mark 2.00 out of

Write a short recursive python function that finds the maximum value in a sequence without using any loops
For example:

Input	Result
4 51 20 31 47	51
4 12 20 5 6	20

Answer: (penalty regime: 0 %)

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	Input	Expected	Got	
	4 51 20 31 47	51	51	
	4 12 20 5 6	20	20	
	6 10 41 75 84 62 35	84	84	
	3 74 52 20	74	74	

Passed all tests!

Correct

Marks for this submission: 2.00/2.00.

Write a Python program to calculate the harmonic sum of n-1.
Note: The harmonic sum is the sum of reciprocals of the positive integers.

Example:

$$1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5} + \cdots$$

For example:

Input	Result
5	2.283333333333333
7	2.5928571428571425

Answer: (penalty regime: 0 %)

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	Input	Expected	Got	
	5	2.283333333333333	2.283333333333333	
	7	2.5928571428571425	2.5928571428571425	
	4	2.083333333333333	2.083333333333333	
	6	2.4499999999999997	2.4499999999999997	

Passed all tests!

Correct
Marks for this submission: 2.00/2.00.

Question **5**
Correct
Mark 2.00 out of 2.00
⚑ Flag question

Write a python program to print the following pattern based on the given input.

Input:6
Output:

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```

For example:

Input	Result
6	1 2 2 3 3 3 4 4 4 4 5 5 5 5 5
5	1 2 2 3 3 3 4 4 4 4

Answer: (penalty regime: 0 %)

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	Input	Expected	Got	
	6	1 2 2 3 3 3 4 4 4 4 5 5 5 5 5	1 2 2 3 3 3 4 4 4 4 5 5 5 5 5	
	5	1 2 2 3 3 3 4 4 4 4	1 2 2 3 3 3 4 4 4 4	
	8	1 2 2 3 3 3 4 4 4 4 5 5 5 5 5 6 6 6 6 6 6 7 7 7 7 7 7 7	1 2 2 3 3 3 4 4 4 4 5 5 5 5 5 6 6 6 6 6 6 7 7 7 7 7 7 7	

Passed all tests!

Marks for this submission: 2.00/2.00.