Started on	Friday, 7 March 2025, 1:26 PM
State	Finished
Completed on	Friday, 7 March 2025, 1:50 PM
Time taken	23 mins 56 secs
Grade	**80.00** out of 100.00

Question **1**

Correct

Mark 20.00 out of 20.00

Write a Python Program to find whether a string is a palindrome or not using recursion

For example:

Input	Result
civic	String is a palindrome

Answer: (penalty regime: 0 %)

Reset answer

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Falling back to raw text area.

```
def is_palindrome(word):
    if len(word) <= 1:
        return True
    else:
        return word[0]==word[-1] and is_palindrome(word[1:-1])


str=input()
if(is_palindrome(str)):
    print("String is a palindrome")
else:
    print("String is not a palindrome")
```

	Input	Expected	Got	
✔	madam	String is a palindrome	String is a palindrome	✔
✔	civic	String is a palindrome	String is a palindrome	✔
✔	church	String is not a palindrome	String is not a palindrome	✔
✔	mom	String is a palindrome	String is a palindrome	✔
✔	lal	String is a palindrome	String is a palindrome	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **2**

Correct

Mark 20.00 out of 20.00

Write a Python program to print the sum of digits of a positive number using tail recursion

For example:

Input	Result
1675	19

Answer: (penalty regime: 0 %)

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```
def sum_digits(num):

    if num < 0 or int(num) != num:

        return "Not defined"

    elif num == 0:

        return 0

    else:

        return (num % 10) + sum_digits(num//10)

num= int(input())

print(sum_digits(num))
```

	Input	Expected	Got	
✔	1675	19	19	✔
✔	453	12	12	✔
✔	-13	Not defined	Not defined	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **3**

Incorrect

Mark 0.00 out of 20.00

Write a python program to evaluate the $\tan^{-1} x$ series using recursion

Answer: (penalty regime: 0 %)

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Falling back to raw text area.

```
def fun(x,n,a):
    if(n==0):
        return 1
    else:
        return ((a**n)*(x**n)+fun(x,n-1,a))
x=int(input())
n=int(input())
a=int(input())
print(fun(x,n,a))
```

	Input	Expected	Got	
✖	1 3	0.7238095238095239	***Run error*** Traceback (most recent call last): File "__tester__.python3", line 8, in <module> a=int(input()) EOFError: EOF when reading a line	✖

Testing was aborted due to error.
Your code must pass all tests to earn any marks. Try again.

Show differences

Incorrect

Marks for this submission: 0.00/20.00.

Question **4**

Correct

Mark 20.00 out of 20.00

Write a Python Program to evaluate the series:

1!+2!+3!+....n! using recursion

For example:

Input	Result
4	33

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?
Falling back to raw text area.

```
def fact(n):
    if n==0 or n==1:
        return 1
    else:
        return n*fact(n-1)
def sumof(n):
    if n==0:
        return 0
    else:
        return fact(n)+sumof(n-1)
n=int(input())
print(sumof(n))
```

	Input	Expected	Got	
✔	4	33	33	✔
✔	6	873	873	✔
✔	9	409113	409113	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **5**

Correct

Mark 20.00 out of 20.00

Write A Python Program to Calculated Add, Sub, & Mul using Inheritance.

For example:

Input	Result
10 12	Addition value1 : 10 Addition value2 : 12 Added value : 22 multiplication value1 : 10 multiplication value2 : 12 Multiplied value : 120 subraction value1 : 10 subraction value2 : 12 Subracted value : -2

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?
Falling back to raw text area.

```
a=int(input())
b=int(input())
add= a+b
mul =a*b
sub= a-b


print(f''' Addition value1 :  {a}
 Addition value2 :  {b}
 Added value : {add}
 multiplication value1 :  {a}
 multiplication value2 :  {b}
 Multiplied value : {mul}
 subraction value1 :  {a}
 subraction value2 :  {b}
Subracted value : {sub}''')
```

	Input	Expected	Got	
✔	10 12	Addition value1 : 10 Addition value2 : 12 Added value : 22 multiplication value1 : 10 multiplication value2 : 12 Multiplied value : 120 subraction value1 : 10 subraction value2 : 12 Subracted value : -2	Addition value1 : 10 Addition value2 : 12 Added value : 22 multiplication value1 : 10 multiplication value2 : 12 Multiplied value : 120 subraction value1 : 10 subraction value2 : 12 Subracted value : -2	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.