Started on	Friday, 6 September 2024, 2:04 PM
State	Finished
Completed on	Friday, 6 September 2024, 2:29 PM
Time taken	24 mins 19 secs
	00.00

Grade 80.00 out of 100.00

Question 1 Incorrect Mark 0.00 out of 20.00

Write a Python program to find the product of all elements in the list

For example:

Test	Input	Result
<pre>print(prod_list(l,len(l)-1))</pre>	4	6240
	12	
	13	
	10	
	4	

Answer: (penalty regime: 0 %)

Reset answer

```
1 ▼ def prod_list(l,length):
        for i in range(0,n+1):
 2 🔻
3
            s=i*length
4
            return s
5
 6
7
   1=[]
8 n=int(input())
9 v for i in range(n):
10
        x=int(input())
        1.append(x)
```

	Test	Input	Expected	Got	
×	<pre>print(prod_list(l,len(l)-1))</pre>	4	6240	0	×
		12			
		13			
		10			
		4			
×	<pre>print(prod_list(l,len(l)-1))</pre>	6	720	0	×
		1			
		2			
		3			
		4			
		5			
		6			
					1

Some hidden test cases failed, too.

Your code must pass all tests to earn any marks. Try again.

Show differences

```
Incorrect
```

Marks for this submission: 0.00/20.00.

Question ${\bf 2}$

Correct

Mark 20.00 out of 20.00

1. A. Write a Python Program to convert a decimal number to a binary number using tail recursion.

For example:

Input	Result
12	1100

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	20	10100	10100	~
~	12	1100	1100	~
~	36	100100	100100	~

Passed all tests! 🗸

Correct

Question $\bf 3$

Correct

Mark 20.00 out of 20.00

Write a Python code to evaluate the following expression for k=10 terms using recursion

$$\frac{1}{1-x} = \sum_{k=0}^{\infty} x^k$$
, for $-1 < x < 1$

For example:

Input	Result
0.8	4.5705032704000015

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	0.8	4.5705032704000015	4.5705032704000015	~
~	-0.5	0.6669921875	0.6669921875	~

Passed all tests! ✓

Correct

```
Question 4
Correct
Mark 20.00 out of 20.00
```

Write a python program to define a function that accepts 2 values and return its sum, subtraction and multiplication.

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
•	10 20	Sum is 30, Sub is -10, & Multiply is 200	Sum is 30, Sub is -10, & Multiply is 200	~
•	85 63	Sum is 148, Sub is 22, & Multiply is 5355	Sum is 148, Sub is 22, & Multiply is 5355	~

Passed all tests! ✓

Correct

Question **5**

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 %)

```
1 ▼ def fact(n):
2 🔻
        if n==0 or n==1:
3
           return 1
4
5
           return n*fact(n-1)
6
7 ▼ def sum(n,t=1):
8 🔻
       if n==0:
9
           return 0
10 ▼
        else:
           return fact(t)+sum(n-1,t+1)
11
12
13
   n=int(input())
14
    res=sum(n)
15 print(res)
```

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

Passed all tests! ✓

Correct