Started on	Tuesday, 8 July 2025, 1:53 PM
State	Finished
Completed on	Tuesday, 8 July 2025, 2:04 PM
Time taken	10 mins 26 secs
Marks	4.00/5.00
Grade	**80.00** out of 100.00

Question **1**

Correct

Mark 1.00 out of 1.00

Write a program that has a dictionary of names of students and their marks in five subjects. Create another dictionary from this dictionary that has the name of the students and their total marks. Find out the topper and the score.

For example:

Input	Result
{'Alice':[87,94,92,88,94], 'Bob':[87,67,78,75,83], 'Eve':[91,93,85,86,81]}	{'Alice': 455, 'Bob': 390, 'Eve': 436} Topper is: Alice with marks = 455

Answer: (penalty regime: 0 %)

```
marks = eval(input())
total = 0
total_marks = marks.copy()
for key,val in marks.items():
    total = sum(val)
    total_marks[key] = total
print(total_marks)
max = 0
topper = ''
for key,val in total_marks.items():
    if val>max:
        max = val
        topper = key
print("Topper is: ", topper, "with marks = ",max)
```

	Input	Expected	Got	
✔	{'Alice':[87,94,92,88,94], 'Bob':[87,67,78,75,83], 'Eve':[91,93,85,86,81]}	{'Alice': 455, 'Bob': 390, 'Eve': 436} Topper is: Alice with marks = 455	{'Alice': 455, 'Bob': 390, 'Eve': 436} Topper is: Alice with marks = 455	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Correct

Mark 1.00 out of 1.00

The provided code stub reads two strings from STDIN, a and b. Add code to print three lines where:

1. The first line contains the concatenation of the two strings.
2. The second line contains the repetition of the first string 3 times

Note: Get the values in float

For example:

Input	Result
Good Morning	GoodMorning GoodGoodGood

Answer: (penalty regime: 0 %)

```
a=str(input())
b=str(input())
print(f"{a}{b}")
print(a*3)

```

	Input	Expected	Got	
✔	Good Morning	GoodMorning GoodGoodGood	GoodMorning GoodGoodGood	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

Let's learn some new Python concepts! You have to generate a list of the first N fibonacci numbers, 0 being the first number. Then, apply the *map* function and a *lambda* expression to cube each fibonacci number and print the list.

Concept

The `map()` function applies a function to every member of an iterable and returns the result. It takes two parameters: first, the function that is to be applied and secondly, the iterables.

Note:

Lambda functions cannot use the return statement and can only have a single expression. Unlike *def*, which creates a function and assigns it a name, *lambda* creates a function and returns the function itself. Lambda can be used inside lists and dictionaries.

Input Format

One line of input: an integer N.

Constraints

$0 \leq N \leq 15$

Output Format

A list on a single line containing the cubes of the first N fibonacci numbers.

For example:

Test	Input	Result
`print(list(map(cube, fibonacci(n))))`	`5`	`[0, 1, 1, 8, 27]`

Answer: (penalty regime: 0 %)

```
p=[0,1]
def fibonacci(n):
    a=0
    b=1
    s=0
    for i in range(n-2):
        s=a+b
        p.append(s)
        a=b
        b=s
    return p
def cube(x):
    return x**3
n=int(input())
```

	Test	Input	Expected	Got	
✔	`print(list(map(cube, fibonacci(n))))`	`5`	`[0, 1, 1, 8, 27]`	`[0, 1, 1, 8, 27]`	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

Write a Python program to construct the following pattern if n = 5

```
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
```

For example:

Input	Result
5	* *

Answer: (penalty regime: 0 %)

```
1 n=int(input())
2 for i in range(n):
3     for j in range(i+1):
4         print('* ',end="")
5     print('')
6 for i in range(n-1,0,-1):
7     for j in range(i):
8         print('* ',end="")
9     print('')
```

	Input	Expected	Got	
✔	5	* *	* *	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **5**

Not answered

Mark 0.00 out of 1.00

Write a Python Program to find x^(P+Q) using recursion.(Do not use ** operator)

For example:

Input	Result
3 2 1	27

Answer: (penalty regime: 0 %)

```
1
```

	Input	Expected	Got	
✔	3 2 1	27	27	✔
✖	4 2 3	1024	27	✖
✖	10 2 1	1000	27	✖

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: 0.00/1.00.