Ο.	- <b>:</b> -	0
Qι	IJΖ	Ŏ

Name:		
italiic.		

1. Draw the memory state diagram for the following program at the point of time when the program reaches line 4:

```
def perform_magic(orig):
1
2
        copy = orig
3
        orig.append(1)
4
        copy += orig
5
         # How does the memory state diagram look here?
6
7
     fruits = [2]
8
     perform_magic(fruits)
0
     print(fruits)
```

Answer:	

- 2. Write a function called funny add () that takes in two parameters:
  - a. values1 (type: list): a list of integers.
  - b. values2 (type: list): another list of integers

and returns a list of integers. Integer element at a particular index is formed from the elements in the 2 parameter lists at the corresponding indices. For example, if values1 is [1] and values2 is [19], then the result will be [119], i.e. the first element is formed by putting the two numbers side by side (1 + 19 = 119).

For example, given the following script:

```
from q2 import funny add
print('TC1: check data type')
result = funny add([1, 3, 5], [9, 66, 11])
print(isinstance(result, list))
print(isinstance(result[0], int))
print('-' * 40)
print('TC2')
result = funny add([1, 3, 5], [9, 66, 11])
print(result)
print('-' * 40)
print('TC3')
result = funny add([2, 4], [1, 3, 5])
print(result)
print('-' * 40)
print('TC3')
result = funny add([1, 3, 5, 6], [2, 4])
print(result)
print('-' * 40)
```

## It will generate the following output:

```
TC1: check data type
True
True
TC2
[19, 366, 511]
TC3
[21, 43, 5]
TC3
[12, 34, 5, 6]
```

```
# answer
def funny-add (v1, v2):
     final = []
     for i in mange ((on (v1)):
         NWW = Str (VI[i]) + Str (V2[i])
         FMal. append (int (num))
     Min Amery
```