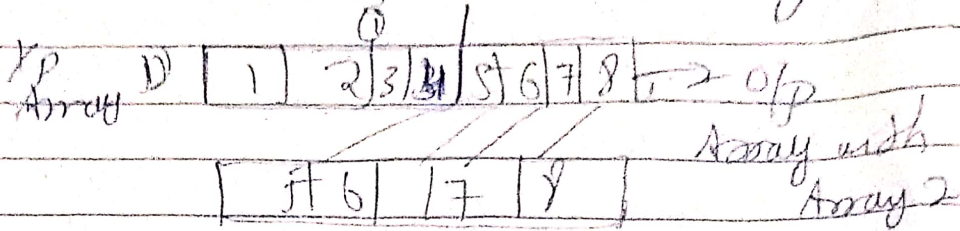


Day 20: coding workshop 6

14) Function to merge two arrays and return combined output in first array



without we extra memory
output in first array

[1, 2, 3, 0, 0]

[4, 5]

```
def merge_list(list1: list, list2: list) -> list:
```

```
    for item in list2:
        list1.append(item)
    print(list1)
```

15) Function get second largest element in int array getSecondLargest

Input array: [5, 4, 6, 3, 1, 2] → o/p int 2nd largest

1st and 2nd

method 1):

```
def get_second_largest(array: list) -> int:
    first_largest = array[0]
```

second_largest = array[0]

for value in range(1, len(array), 1):

if array[value] > first_largest:

second_largest = first_largest

first_largest = array[value]

elif array[value] > second_largest
or first_largest ==
second_largest:

second_largest = array[value]

return second_largest

method - 2)

def get_second_largest_v2(array: list) -> int:

largest_max = float('-inf')

second_largest = float('-inf')

for value in range(0, len(array), 1):

if array[value] > largest_max:

second_largest = largest_max

largest_max = array[value]

elif array[value] > second_largest:

second_largest = array[value]

return second_largest