

**Lab Report**

**Course Title: Object Oriented Programming II Lab**

**Course Code: CSE222**

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**Problem-01:** Find Runner-up Score

**Solution:**

if \_\_name\_\_ == '\_\_main\_\_':

    n = int(input())

    arr = map(int, input().split())

    max\_score = -101

    runner\_up = -101

    for score in arr:

        if score > max\_score:

            runner\_up = max\_score

            max\_score = score

        elif score > runner\_up and score < max\_score:

            runner\_up = score

    print(runner\_up)

**Output:**



**Problem-02:** Given a list of numbers, swap adjacent items in pairs (A[0] with A[1], A[2] with A[3], etc.). Print the resulting list. If a list has an odd number of elements, leave the last element in place.

**Solution:**

List = list(map(int, input("Enter a list of numbers: ").split()))

for i in range(0, len(List) - 1, 2):

    temp = List[i]

    List[i] = List[i + 1]

    List[i + 1] = temp

print("After swapping adjacent items:", List)

**Output:**



**Problem-03:** Given a list of unique numbers, swap the minimal and maximal elements of this list. Print the resulting list.

**Solution:**

UniqueNumbers = list(map(int, input("Enter a list of unique Numbers: ").split()))

min\_value = min(UniqueNumbers)

max\_value = max(UniqueNumbers)

min\_index = UniqueNumbers.index(min\_value)

max\_index = UniqueNumbers.index(max\_value)

UniqueNumbers[min\_index], UniqueNumbers[max\_index] = max\_value, min\_value

print("After swapping minimal and maximal elements:", UniqueNumbers)

**Output:**



**Problem-04:** Write a Python program to count the number of strings from a given list of strings. The string length is 2 or more and the first and last characters are the same.

Sample List : ['abc', 'xyz', 'aba', '1221']

Expected Result : 2

**Solution:**

strings = input("Enter a list of strings: ").split()

count = 0

for string in strings:

    if len(string) >= 2 and string[0] == string[-1]:

        count += 1

print("Result:", count)

**Output:**



**Problem-05:** Write a python program which contains a list of the some names of items.

case-01:Find out the length of each item  and store in an another list.

case-02:Access each item’s  name and convert the lower case letters into uppercase as well as convert the uppercase letters into lowercase letters.

**Solution:**

items = input("Enter a list of Names: ").split()

lengths = []

for item in items:

    lengths.append(len(item))

print("Length of each item:", lengths)

converted\_items = []

for item in items:

    converted\_items.append(item.swapcase())

print("Converted items:", converted\_items)

**Output:**

