Lab Report 1

Course Title: OOP II Lab Course Code: CSE222

Experiment No: 1
Experiment Name: Basic Problem Solving with Python

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Problem : 01

In [12]:
```
n = int(input())
input_values = input().split()
list = [int(x) for x in input_values]
list.sort(reverse=True)
for j in range(1,n):
    if(list[j] != list[0]):
        print(list[j])
    break
```

```
5
2 3 6 6 5

5
```

Problem: 02

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

In [3]:
```
n=[1,2,3,4,5]
x=len(n)
if(x%2==0):
  for i in range(0,x,2):
    n[i],n[i+1]=n[i+1],n[i]
    print(n[i],n[i+1])
elif(x%2!=0):
  for i in range(0,x-1,2):
    n[i],n[i+1]=n[i+1],n[i]
    print(n[i],n[i+1])
```

```
2 1
4 3
```

Problem:03

In [10]:
```
l = [1,3,5,6,7,33,45,2]
n = len(l)
max1 = l[0]
min1 = l[0]

for i in range(n):
    if max1 < l[i]:
        max1 = l[i]

for i in range(n):
    if min1 > l[i]:
        min1 = l[i]
print(max1,min1)
max1,min1=min1,max1
print(max1,min1)
```

```
45 1
1 45
```

Problem:04

In [8]:
```
list = ['abc', 'xyz', 'aba', '1221']
s = 0
for string in list:
    if len(string) >= 2 and string[0] == string[-1]:
        s += 1
result = s
print(result)
```

```
2
```

Problem:05

In [5]:

```
item_names = ['Tamanna', 'Binota', 'Tanshin', 'Delo', 'Via']

item_lengths = []
converted_names = []

for item in item_names:
    item_length = len(item)
    item_lengths.append(item_length)
for name in item_names:
    converted_name = name.swapcase()
    converted_names.append(converted_name)

print("Item Lengths:", item_lengths)
print("Converted Names:", converted_names)
```

```
Item Lengths: [7, 6, 7, 4, 3]
Converted Names: ['tAMANNA', 'bINOTA', 'tANSHIN', 'dELO', 'vIA']
```