



Lab task 10

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Problem no 1

```
def minimum(x):  
    min_val = x[0]  
    for i in x:  
        if i < min_val:  
            min_val = i  
    return min_val  
  
def mean(list):  
    sum = 0  
    for i in list:  
        sum += i  
    y = len(list)  
    return sum/y  
  
a = [1,3,5]  
b = [2,4,6]  
# part 1 : new list c with numbers from  
both a and b  
c = a+b  
print(c)  
# part 2 : Appending 7,8,9 to the end lo  
list c  
for i in range(7,10):  
    c.append(i)  
print(c)  
#Part 3: printing first three elements of  
c  
print(c[0:4])  
# Part 4 : printing last element of c
```



```
print(b[-1])
# part 5 : printing length of a
print(len(a))
# part 6: finding minimum value in list c
print(minimum(c))
# part 7: Finding the mean value from the
list
print(mean(c))
# part 8 : Entering a 4th element in list
c which is 42
c.append(42)
print(c)
```

Output no 1

```
C:\Users\User\PycharmProjects\pythonProject34\
[1, 3, 5, 2, 4, 6]
[1, 3, 5, 2, 4, 6, 7, 8, 9]
[1, 3, 5, 2]
6
3
1
5.0
[1, 3, 5, 2, 4, 6, 7, 8, 9, 42]

Process finished with exit code 0
```



Problem no 2

```
def common_member(list_1,list_2):  
    for i in list_1:  
        if i in list_2:  
            y = True  
            break  
        else:  
            y = False  
    return y  
print(common_member([10,20,30,40,50],[10,  
55,44,66,88]))
```

Output no 2

```
C:\Users\User\PycharmProjects\pythonProject34\  
True  
  
Process finished with exit code 0
```

Program no 3

```
def unique(input_list):  
    unique_list = []  
    for i in input_list:  
        if i not in unique_list:  
            unique_list.append(i)
```



```
    return unique_list
print(unique([10,20,30,40,20,50,60,40]))
```

Output no 3

```
C:\Users\User\PycharmProjects\pythonProject34\
[10, 20, 30, 40, 50, 60]

Process finished with exit code 0
```

Program no 4

```
def bubbleSort(alist):
    for x in range(len(alist)-1,0,-1):
        for i in range(x):
            if alist[i]<alist[i+1]:
                result = alist[i]
                alist[i] = alist[i+1]
                alist[i+1] = result
    return(alist)
a = [40,5,6,4,5,5,3,2,1,0]
print(bubbleSort(a))
```



Output no 4

```
C:\Users\User\PycharmProjects\pythonProject34\  
[40, 6, 5, 5, 5, 4, 3, 2, 1, 0]  
  
Process finished with exit code 0
```