Marwadi University Marwadi Chandarana Group NAAC A+	**Marwadi University** **Faculty of Engineering & Technology** **Department of Information and Communication Technology**	
Subject: Programming With Python (01CT1309)	**Aim:** Write a python program to create, append and remove lists in python.	
Experiment No: 04	**Date:**	**Enrollment No: 92400133055**

GITHUB

Aim: Write a python program to create, append and remove lists in python.

IDE:

A collection of items can be managed and stored in an ordered sequence using a Python list, a flexible and robust data structure. Because lists may hold components of several data types—integers, texts, and even other lists—they are incredibly versatile for various computer applications. You can quickly add, remove, and alter elements from Python lists and carry out operations like sorting and slicing.

Example of List in Python

ages = [19, 26, 29]
print(ages)
Output:

```
1   ages = [19, 26, 29]
2   print(ages)
```

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
[19, 26, 29]
PS E:\SEM 3\PWP>
```

Task:

a = list(range(5))
print(a)
Output:

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```
4   a = list(range(5))
5   print(a)
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
[0, 1, 2, 3, 4]
PS E:\SEM 3\PWP>
```

b = list(range(5,10))
print(b)
Output:

```
7   b = list(range(5,10))
8   print(b)
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
[5, 6, 7, 8, 9]
PS E:\SEM 3\PWP>
```

c = list(range(0,10,2))
print(c)
output:

```
10  c = list(range(0,10,2))
11  print(c)
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
[0, 2, 4, 6, 8]
PS E:\SEM 3\PWP>
```

d = list(range(10,0,-2))
print(d)

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output:

```
13    d = list(range(10,0,-2))
14    print(d)
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
[10, 8, 6, 4, 2]
PS E:\SEM 3\PWP>
```

Add Elements to a Python List

1. Python append() Method

Adds element to the end of a list.

List = ['Mathematics', 'chemistry', 1997, 2000]
List.append(20544)
print(List)
output:

```
16    List = ['Mathematics', 'chemistry', 1997, 2000]
17    List.append(20544)
18    print(List)
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
['Mathematics', 'chemistry', 1997, 2000, 20544]
PS E:\SEM 3\PWP>
```

2. Python insert() Method

Inserts an element at the specified position.

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List = ['Mathematics', 'chemistry', 1997, 2000]
# Insert at index 2 value 10087
List.insert(2, 10087)
print(List)
output:

```
21  List = ['Mathematics', 'chemistry', 1997, 2000]
22  List.insert(2, 10087)
23  print(List)
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  Code

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
['Mathematics', 'chemistry', 10087, 1997, 2000]
PS E:\SEM 3\PWP>
```

3. Python extend() Method

Adds items of an iterable(list.) to the end of a list.

List1 = [1, 2, 3]
List2 = [2, 3, 4, 5]
# Add List2 to List1
List1.extend(List2)
print(List1)
output:

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```
25    List1 = [1, 2, 3]
26    List2 = [2, 3, 4, 5]
27    List1.extend(List2)
28    print(List1)
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  Code

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
[1, 2, 3, 2, 3, 4, 5]
PS E:\SEM 3\PWP>
```

Important Functions of the Python List

1. Python sum() Method
Calculates the sum of all the elements of the List.

List = [1, 2, 3, 4, 5]
print(sum(List))
output

```
30    List = [1, 2, 3, 4, 5]
31    print(sum(List))
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  Code

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
15
PS E:\SEM 3\PWP>
```

Task:
List = ['gfg', 'abc', 3]
print(sum(List))
output:

no output as sum function only works with numerical data

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2. Python count() Method

Calculates the total occurrence of a given element of the List.

List = [1, 2, 3, 1, 2, 1, 2, 3, 2, 1]
print(List.count(1))
List = [‘a’,’b’,c’,’d’,’a’]
print(List.count(‘a’))

output:

```
36  List = [1, 2, 3, 1, 2, 1, 2, 3, 2, 1]
37  print(List.count(1))
38
39  List = ['a','b','c','d','a']
40  print(List.count('a'))
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
4
2
PS E:\SEM 3\PWP>
```

3. Python len() Method
Calculates the total length of the List.

List = [1, 2, 3, 1, 2, 1, 2, 3, 2, 1]
print(len(List))
output:

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```
43    List = [1, 2, 3, 1, 2, 1, 2, 3, 2, 1]
44    print(len(List))
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
10
PS E:\SEM 3\PWP>
```

4. Python index() Method

Returns the index of the first occurrence. The start and end indexes are not necessary parameters.

List = [1, 2, 3, 1, 2, 1, 2, 3, 2, 1]
print(List.index(2))
output:

```
46    List = [1, 2, 3, 1, 2, 1, 2, 3, 2, 1]
47    print(List.index(2))
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
1
PS E:\SEM 3\PWP>
```

Task:
List = [1, 2, 3, 1, 2, 1, 2, 3, 2, 1]
print(List.index(2, 2))
output:

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Experiment No: 04	**Date:**	**Enrollment No: 92400133055**

```
49    List = [1, 2, 3, 1, 2, 1, 2, 3, 2, 1]
50    print(List.index(2, 2))
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
4
PS E:\SEM 3\PWP>
```

5. Python min() Method

Calculates minimum of all the elements of List.
numbers = [5, 2, 8, 1, 9]
print(min(numbers))
output:

```
53    numbers = [5, 2, 8, 1, 9]
54    print(min(numbers))
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
1
PS E:\SEM 3\PWP>
```

6. Python max() Method
Calculates the maximum of all the elements of the List.
numbers = [5, 2, 8, 1, 9]
print(max(numbers))
output:

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Subject: Programming With Python (01CT1309)	**Aim:** Write a python program to create, append and remove lists in python.	
Experiment No: 04	**Date:**	**Enrollment No: 92400133055**

```
56    numbers = [5, 2, 8, 1, 9]
57    print(max(numbers))
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
9
PS E:\SEM 3\PWP>
```

7. Python sort() Method

Sort the given data structure (both tuple and list) in ascending order.

List = [2.3,4.445,3,5.33,1.054,2.5]

List.sort()

print(List)

output:

```
59    List = [2.3,4.445,3,5.33,1.054,2.5]
60    List.sort()
61    print(List)
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
[1.054, 2.3, 2.5, 3, 4.445, 5.33]
PS E:\SEM 3\PWP>
```

List = [2.3, 4.445, 3, 5.33, 1.054, 2.5]

#Reverse flag is set True

List.sort(reverse=True)

print(List)

output:

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```
63    List = [2.3, 4.445, 3, 5.33, 1.054, 2.5]
64    List.sort(reverse=True)
65    print(List)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
[5.33, 4.445, 3, 2.5, 2.3, 1.054]
PS E:\SEM 3\PWP>
```

8. Python reverse() Method
reverse() function reverses the order of list.
# creating a list
list = [1,2,3,4,5]
#reversing the list
list.reverse()
#printing the list
print(list)

Output:

```
67    list = [1,2,3,4,5]
68    list.reverse()
69    print(list)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
[5, 4, 3, 2, 1]
PS E:\SEM 3\PWP>
```

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Experiment No: 04	**Date:**	**Enrollment No: 92400133055**

Deletion of List Elements

To Delete one or more elements, i.e. remove an element, many built-in Python list functions can be used, such as pop() and remove() and keywords such as del.

1. Python pop() Method

Removes an item from a specific index in a list.

List = [2.3, 4.445, 3, 5.33, 1.054, 2.5]

print(List.pop())

output:

```
71    List = [2.3, 4.445, 3, 5.33, 1.054, 2.5]
72    print(List.pop())
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
2.5
PS E:\SEM 3\PWP>
```

List = [2.3, 4.445, 3, 5.33, 1.054, 2.5]

print(List.pop(0))

output:

```
74    List = [2.3, 4.445, 3, 5.33, 1.054, 2.5]
75    print(List.pop(0))
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
2.3
PS E:\SEM 3\PWP>
```

2. Python del() Method

Deletes an element from the list using it's index.

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List = [2.3, 4.445, 3, 5.33, 1.054, 2.5]
del List[0]
print(List)
output:

```
77    List = [2.3, 4.445, 3, 5.33, 1.054, 2.5]
78    del List[0]
79    print(List)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
[4.445, 3, 5.33, 1.054, 2.5]
PS E:\SEM 3\PWP>
```

3. Python remove() Method
Removes a specific element using it's value/name.
List = [2.3, 4.445, 3, 5.33, 1.054, 2.5]
List.remove(3)
print(List)
output:

```
81    List = [2.3, 4.445, 3, 5.33, 1.054, 2.5]
82    List.remove(3)
83    print(List)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
[2.3, 4.445, 5.33, 1.054, 2.5]
PS E:\SEM 3\PWP>
```

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# removing duplicates from a list using dictionaries
my_list_1 = [5, 2, 90, 24, 10, 2, 90, 34]
my_list_2 = ['a', 'a', 'a', 'b', 'c', 'd', 'd', 'e']

# removing duplicates from list 1
my_list_1 = list(dict.fromkeys(my_list_1))
print(my_list_1)
output:

```
85    my_list_1 = [5, 2, 90, 24, 10, 2, 90, 34]
86    my_list_2 = ['a', 'a', 'a', 'b', 'c', 'd', 'd', 'e']
87    my_list_1 = list(dict.fromkeys(my_list_1))
88    print(my_list_1)
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
[5, 2, 90, 24, 10, 34]
PS E:\SEM 3\PWP>
```

# removing duplicates from list 2
my_list_2 = list(dict.fromkeys(my_list_2))
print(my_list_2)
output:

```
90    my_list_2 = ['a', 'a', 'a', 'b', 'c', 'd', 'd', 'e']
91    my_list_2 = list(dict.fromkeys(my_list_2))
92    print(my_list_2)
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
['a', 'b', 'c', 'd', 'e']
PS E:\SEM 3\PWP>
```

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Combining lists

We can even combine lists with the help of the zip() function which results in a list of tuples. Here each item from list A is combined with corresponding elements from list B in the form of a tuple.

```
# combing lists with the help of zip() function
my_list_1 = [5, 2, 90, 24, 10]
my_list_2 = [6, 3, 91, 25, 12]

# combined
my_combined_list = list(zip(my_list_1, my_list_2))
print(my_combined_list)
```

output:

```
94   my_list_1 = [5, 2, 90, 24, 10]
95   my_list_2 = [6, 3, 91, 25, 12]
96   my_combined_list = list(zip(my_list_1, my_list_2))
97   print(my_combined_list)
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
[(5, 6), (2, 3), (90, 91), (24, 25), (10, 12)]
PS E:\SEM 3\PWP>
```

Finding the most common item

To find the most frequent element we make use of the set() function. The set() function removes all the duplicates from the list, and the max() function returns the most frequent element (which is found with the help of 'key'). The key is an optional single argument function.

```
# to find the most frequent element from the list
my_list = ['a', 'a', 'a', 'b', 'c', 'd', 'd', 'e']
most_frequent_value = max(set(my_list), key=my_list.count)
print("The most common element is:", most_frequent_value)
```

output:

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```
104    my_list = ['a', 'a', 'a', 'b', 'c', 'd', 'd', 'e']
105    most_frequent_value = max(set(my_list), key=my_list.count)
106    print("The most common element is:", most_frequent_value)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
The most common element is: a
PS E:\SEM 3\PWP>
```

Flatten a list of lists

Sometimes we encounter a list where each element in itself is a list. To convert a list of lists into a single list, we use list comprehension.

```
# to flatten a list_of_lists by using list comprehension
list_of_lists = [[1, 2],
                 [3, 4],
                 [5, 6],
                 [7, 8]]
# using list comprehension
my_list = [item for List in list_of_lists for item in List]
print(my_list)
```

output

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```
108  list_of_lists = [[1, 2],
109                   [3, 4],
110                   [5, 6],
111                   [7, 8]]
112  my_list = [item for List in list_of_lists for item in List]
113  print(my_list)
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\lab_4.py"
[1, 2, 3, 4, 5, 6, 7, 8]
PS E:\SEM 3\PWP>
```

Post Lab Exercise:

a. Write a Python program to multiply all the items in a list.

```
1  #Question 1
2  import math
3  numbers = [1,3,5,7,9]
4  product = math.prod(numbers)
5  print("Product of list elements:", product)
```

```
PROBLEMS 1  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\post_lab_4.py"
Product of list elements: 945
PS E:\SEM 3\PWP>
```

b. Write a Python program to get the largest number from a list.

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```python
#Question 2
numbers = [11, 12, 13, 14, 15]
print("Largest number:", max(numbers))
```

```
PROBLEMS 1  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\post_lab_4.py"
Largest number: 15
PS E:\SEM 3\PWP>
```

c. Write a Python program to remove duplicates from a list.

```python
#Question 3
user = [1, 2, 2, 3, 4, 4, 5]
removed = list(set(user))
print("List after removing duplicates:", removed)
```

```
PROBLEMS 1  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\post_lab_4.py"
List after removing duplicates: [1, 2, 3, 4, 5]
PS E:\SEM 3\PWP>
```

d. Write a Python program to get the frequency of elements in a list.

```python
#Question 4
from collections import Counter
items = ['yes', 'no', 'yes', 'yes', 'no', 'yes']
freq = Counter(items)
print(freq)
```

```
PROBLEMS 1  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\post_lab_4.py"
Counter({'yes': 4, 'no': 2})
PS E:\SEM 3\PWP>
```

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e. Find common items from two lists

```
22  #Question 5
23  l1 = [1, 2, 3, 4, 5]
24  l2 = [3, 4, 5, 6, 7]
25  common = list(set(l1).intersection(l2))
26  print("Common items:", common)
```

```
PROBLEMS 1  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\post_lab_4.py"
Common items: [3, 4, 5]
PS E:\SEM 3\PWP>
```

f. Convert a list of multiple integers into a single integer

```
29  nums = [1, 2, 3, 4]
30  single_int = ""
31  for n in nums:
32      single_int = single_int + str(n)
33  single_int = int(single_int)
34  print(single_int)
```

```
PROBLEMS 1  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS E:\SEM 3\PWP> python -u "e:\SEM 3\PWP\Class Tutorials\post_lab_4.py"
1234
PS E:\SEM 3\PWP>
```