
 Marwadi University Marwadi Chandarana Group 	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:31/07/25	Enrollment No:9251013011

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:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '60729' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
[19, 26, 29]
```

Task:

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

```
print(a)
```

Output:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c::; cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '60748' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
[0, 1, 2, 3, 4]
```

```
b = list(range(5,10))
```

```
print(b)
```



Output:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c::; cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '60771' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
[5, 6, 7, 8, 9]
```

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

```
print(c)
```

output:

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```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '60791' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
```

```
[0, 2, 4, 6, 8]
d = list(range(10,0,-2))
print(d)
output:
```

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '60808' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
```

```
[10, 8, 6, 4, 2]
```

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:
```

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '60824' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
```

```
['Mathematics', 'chemistry', 1997, 2000, 20544]
```

2. Python insert() Method



Inserts an element at the specified position.

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

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '60858' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
```

```
['Mathematics', 'chemistry', 10087, 1997, 2000]
```

3. Python extend() Method

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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:
```

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c::; cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundle\libs\debugpy\launcher' '60878' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
[1, 2, 3, 2, 3, 4, 5]
PS C:\Users\trupa\OneDrive\Documents\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:
```

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c::; cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundle\libs\debugpy\launcher' '60918' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
15
PS C:\Users\trupa\OneDrive\Documents\PWP>
```

Task:

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

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c::; cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundle\libs\debugpy\launcher' '63782' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
Traceback (most recent call last):
  File "c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4", line 2, in <module>
    print(sum(List))
           ~~~~~
TypeError: unsupported operand type(s) for +: 'int' and 'str'
PS C:\Users\trupa\OneDrive\Documents\PWP>
```

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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))
output:
```

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c;; cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bu
ndled\libs\debugpy\launcher' '60960' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
4
```

```
List = ['a','b','c','d','a']
print(List.count('a'))
output:
```

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c;; cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bu
ndled\libs\debugpy\launcher' '61027' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
2
```

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:
```

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c;; cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bu
ndled\libs\debugpy\launcher' '61051' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
10
```

4. Python index() Method

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

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List = [1, 2, 3, 1, 2, 1, 2, 3, 2, 1]

print(List.index(2))

output:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '61066' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
```

Task:

List = [1, 2, 3, 1, 2, 1, 2, 3, 2, 1]

print(List.index(2, 2))

output:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '61085' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
```

5. Python min() Method

Calculates minimum of all the elements of List.

numbers = [5, 2, 8, 1, 9]

print(min(numbers))

output:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '61102' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
```

6. Python max() Method

Calculates the maximum of all the elements of the List.

numbers = [5, 2, 8, 1, 9]


print(max(numbers))

output:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '61117' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
```

7. Python sort() Method

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

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

List.sort()

print(List)

output:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundle\libs\debugpy\launcher' '61147' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
[1.054, 2.3, 2.5, 3, 4.445, 5.33]
```

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

#Reverse flag is set True

List.sort(reverse=True)

print(List)

output:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundle\libs\debugpy\launcher' '61166' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
[5.33, 4.445, 3, 2.5, 2.3, 1.054]
```

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:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundle\libs\debugpy\launcher' '61183' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
[5, 4, 3, 2, 1]
```



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]

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```
print(List.pop())
```

output:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bu
ndled\libs\debugpy\launcher' '61200' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
2.5
```

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

```
print(List.pop(0))
```

output:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bu
ndled\libs\debugpy\launcher' '61216' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
2.3
```

2. Python del() Method

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

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

```
del List[0]
```

```
print(List)
```

output:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bu
ndled\libs\debugpy\launcher' '61236' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
[4.445, 3, 5.33, 1.054, 2.5]
```

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:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bu
ndled\libs\debugpy\launcher' '61252' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
[2.3, 4.445, 5.33, 1.054, 2.5]
```



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))
```

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```
print(my_list_1)
```

output:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bu
ndled\libs\debugpy\launcher' '61360' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
[5, 2, 90, 24, 10, 34]
```

```
# removing duplicates from list 2
```

```
my_list_2 = list(dict.fromkeys(my_list_2))
```

```
print(my_list_2)
```

output:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bu
ndled\libs\debugpy\launcher' '61395' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
['a', 'b', 'c', 'd', 'e']
```

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.

```
# combining 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:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bu
ndled\libs\debugpy\launcher' '61430' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
[(5, 6), (2, 3), (90, 91), (24, 25), (10, 12)]
```

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)
```


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output:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c::; cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bu
ndled\libs\debugpy\launcher' '61449' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
The most common element is: a
```

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:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c::; cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bu
ndled\libs\debugpy\launcher' '61509' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
[1, 2, 3, 4, 5, 6, 7, 8]
```

Post Lab Exercise:

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

```
numbers = [2, 3, 4, 5]
```

```
result = 1
```


```
for num in numbers:
```

```
    result *= num
```

```
print("Product of all items:", result)
```

output:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c::; cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bu
ndled\libs\debugpy\launcher' '61541' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
Product of all items: 120
```

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

```
numbers = [5, 12, 7, 25, 3]
largest = max(numbers)
print("Largest number is:", largest)
output:
```

```
PS C:\Users\trupa\OneDrive\Documents\PWP>
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bu
ndled\libs\debugpy\launcher' '61589' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
Largest number is: 25
```

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

```
my_list = [1, 2, 2, 3, 4, 4, 5]
unique_list = list(set(my_list))
print("List after removing duplicates:", unique_list)
output:
```

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bu
ndled\libs\debugpy\launcher' '61642' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
List after removing duplicates: [1, 2, 3, 4, 5]
```



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

```
my_list = [1, 2, 2, 3, 4, 4, 5]
frequency = {}
for item in my_list:
    if item in frequency:
        frequency[item] += 1
    else:
        frequency[item] = 1
print("Frequency of elements:", frequency)
output:
```

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c:: cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bu
ndled\libs\debugpy\launcher' '61684' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
Frequency of elements: {1: 1, 2: 2, 3: 1, 4: 3, 5: 1}
```

- e. Find common items from two lists.

```
list1 = [1, 2, 3, 4, 5]
list2 = [4, 5, 6, 7, 8]
common_items = list(set(list1) & set(list2))
print("Common items:", common_items)
```

 Marwadi University Marwadi Chandarana Group 	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:31/07/25	Enrollment No:9251013011

output:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c::; cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bu
ndled\libs\debugpy\launcher' '61730' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
Common items: [4, 5]
```

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

```
my_list = [1, 2, 3, 4]
```

```
result = int("".join(str(i) for i in my_list))
```

```
print("Single integer:", result)
```

output:

```
PS C:\Users\trupa\OneDrive\Documents\PWP> c::; cd 'c:\Users\trupa\OneDrive\Documents\PWP'; & 'c:\Users\trupa\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\trupa\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bu
ndled\libs\debugpy\launcher' '61764' '--' 'c:\Users\trupa\OneDrive\Documents\PWP\PWP EXP 4'
Single integer: 1234
```