



# Worksheet - 2.2

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**Branch:** BE-CSE (LEET) Section/Group: 809/A

Semester: 4th Date of Performance: 30/03/2022

**Subject Name:** Programming in Python Lab **Subject Code:** 20CSP-259

### 1. Aim/Overview of the practical:

I. Write a Python program to get a list, sorted in increasing order.

II. Write a Python program to print a specified list after removing the 0th, 4th and 5th elements, Sample List: ['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow'], Expected Output: ['Green', 'White', 'Black'].

## 2. Task to be done/ Which logistics used:

- I. Write a Python program to get a list, sorted in increasing order.
- II. Write a Python program to print a specified list after removing the 0th, 4th and 5th elements, Sample List: ['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow'], Expected Output: ['Green', 'White', 'Black'].

## 3. Steps for experiment/practical/Code:

I. Write a Python program to get a list, sorted in increasing order.

#### Sourse Code:

```
def last(n):
    return n[-1]

def sort(tuples):
    return sorted(tuples, key=last)

list_tup = []
    item=[]
    n = int(input("Enter number of elements : "))
    for i in range(0, n):
        print("Enter {}th of Tuples 2 elements: ".format(i+1))
        for j in range(0,2):
        ele = int(input())
```







```
item.append(ele)
list_tup.append(tuple(item))
item=[]
print("Sorted:")
print(sort(list_tup))
```

II. Write a Python program to print a specified list after removing the 0th, 4th and 5th elements, Sample List: ['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow'], Expected Output: ['Green', 'White', 'Black'].

#### **Sourse Code:**

```
#As per the given Exasmple

color = ['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow']

print('Sample List: ',color)

new_color=[]

for i in range(len(color)):

   if i not in (0,4,5):

    new_color.append(color[i])

print('Expected Output: ',new_color)
```

```
#Program with Dynamic value

list_items=[]

new_list=[]

n = int(input("Enter number of elements you want in List: "))

for i in range(0, n):

    ele = input("Enter {}th of elements: ".format(i))

    list_items.append(ele)

rn=int(input("Enter How many items you want to remove from List: "))

item=[]

if n>=rn:

for j in range(rn):

    ele = int(input('Enter The Item Index Value: '))

    item.append(ele)

item=tuple(item)

print('Given List: ',list_items)
```







```
for i in range(len(list_items)):
    if i not in item:
        new_list.append(list_items[i])
    print('Expected Output: ',new_list)
    else:
    print('Invalid Input')
```

### 4. Result/Output/Writing Summary:

II. Write a Python program to print a specified list after removing the 0th, 4th and 5th elements, Sample List: ['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow'], Expected Output: ['Green', 'White', 'Black'].

#### **Output:**

```
WorkSheet5Q2.py - CodeWithVnj - Visual Studio Code
                                                                                                                               ▷ ~ □ …
                               WorkSheet5Q1.py
                                                  WorkSheet5Q2.py X
                                 Python > UniversityProgram > WorkSheet1 > 🧓 WorkSheet5Q2.py > ...
    v 📹 Python
      > Exercise Files
                                    2 color = ['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow']

✓ 

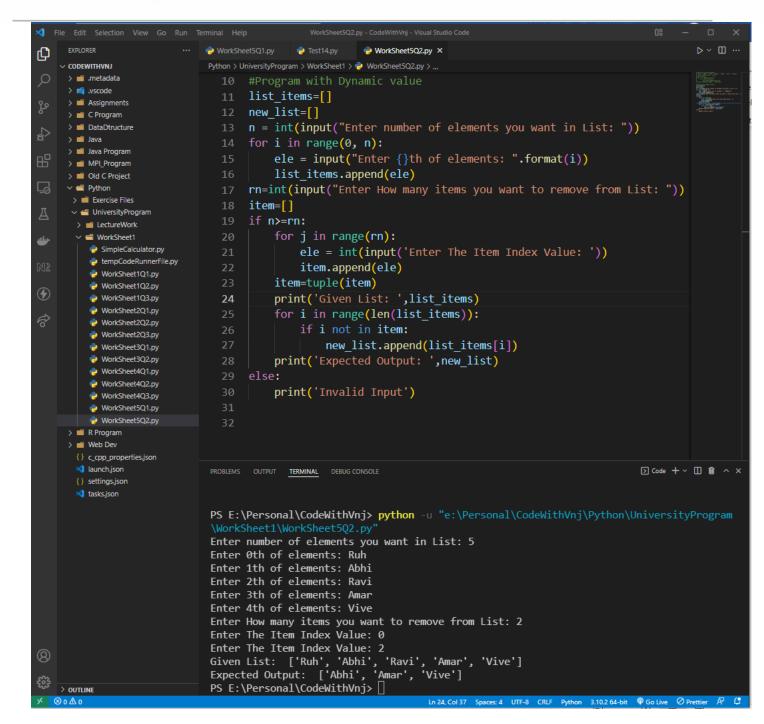
☐ UniversityProgram

                                    3 print('Sample List: ',color)
       > 📹 LectureWork
                                    4 new color=[]
       SimpleCalculator.py
                                    5 for i in range(len(color)):
         tempCodeRunnerFile.py
                                              if i not in (0,4,5):
         WorkSheet1Q1.pv
                                                  new_color.append(color[i])
         WorkSheet1Q2.py
WorkSheet1Q3.py
                                    8 print('Expected Output: ',new color)
          WorkSheet2Q1.py
          WorkSheet2O2.pv
                                 PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
                                                                                                                    ∑ Code + ∨ □ 前 ^ ×
          WorkSheet2Q3.py
          WorkSheet3Q1.pv
                                 Windows PowerShell
         WorkSheet3Q2.py
                                 Copyright (C) Microsoft Corporation. All rights reserved.
         WorkSheet4Q1.pv
         WorkSheet4Q2.py
                                 Try the new cross-platform PowerShell https://aka.ms/pscore6
         WorkSheet5Q1.py
          WorkSheet5Q2.py
                                 PS E:\Personal\CodeWithVnj> python -u "e:\Personal\CodeWithVnj\Python\UniversityProgram
     > 🔳 R Program
                                 \WorkSheet1\WorkSheet5Q2.py
      > 🔳 Web Dev
                                 Sample List: ['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow']
       {} c_cpp_properties.json
                                 Expected Output: ['Green', 'White', 'Black']
                                 PS E:\Personal\CodeWithVnj>
       {} settings.json
       刘 tasks.json
    > OUTLINE
                                                                            Ln 5, Col 28 Spaces: 4 UTF-8 CRLF Python 3.10.2 64-bit @ Go Live Ø Prettier
```









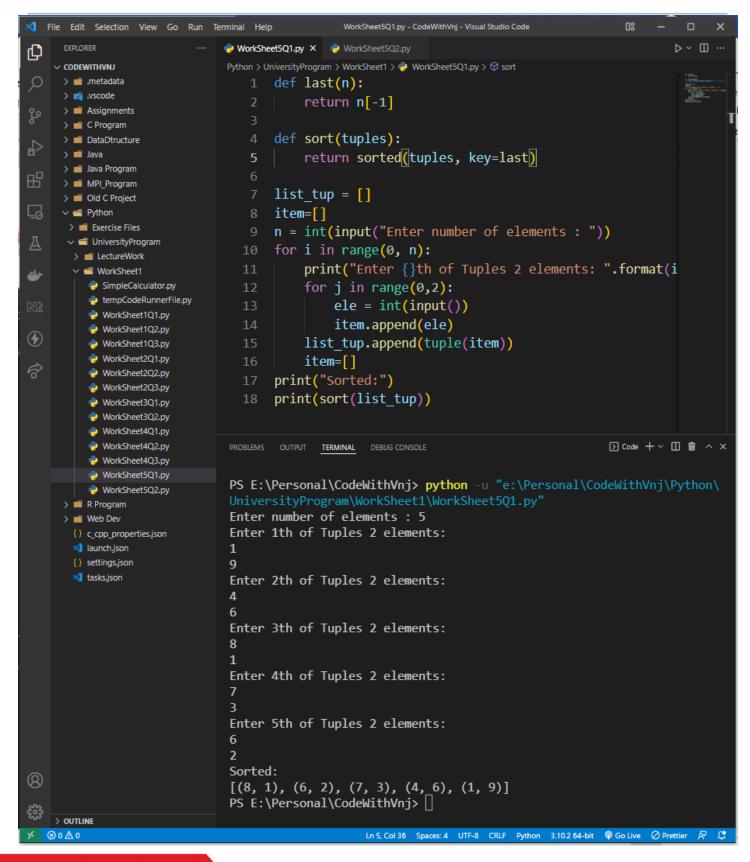
I. Write a Python program to get a list, sorted in increasing order.

**Output:** 















**Note:** There is a small Confusion in output part. Because of size of the Screenshot image, I have Arranged 2<sup>nd</sup> Program output first and 1<sup>st</sup> Program output in last.

# **Learning outcomes (What I have learnt):**

- 1. I have learnt, how to take List as well as Tuple Input from User.
- **2.** Learnt to find the sorted tuple with their last element.
- **3.** Learnt to List Manipulation.

## Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			
4			
i			

