بِسۡمِ ٱللَّهِ ٱلرَّحۡمَٰنِ ٱلرَّحِيمِ

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Semester:

7th

Subject:

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Chapter-4
List & Tuples

- **List:**

A list is a data structure in Python that is a mutable, or changeable, ordered sequence of elements.

- **List indexing:**

"Indexing" means referring to an element of an iterable by its position within the iterable.

- **List slicing:**

In short, slicing is a flexible tool to build new lists out of an existing list. Python supports slice notation for any sequential data type like lists, strings, tuples, bytes, bytearrays, and ranges

programs

List Method:

The list() function **creates a list object**. A list object is a collection which is ordered and changeable.

```python
#list method
list =[3,4,8,6,7,1]
#list sort
list.sort()
print(list)
#list reverse
list.reverse()
print(list)
#list append
list.append(9)
print(list)
#list insert
list.insert(3,15)
print(list)
#list pop
list.pop(4)
print(list)
#list remove
list.remove(3)
print(list)
```

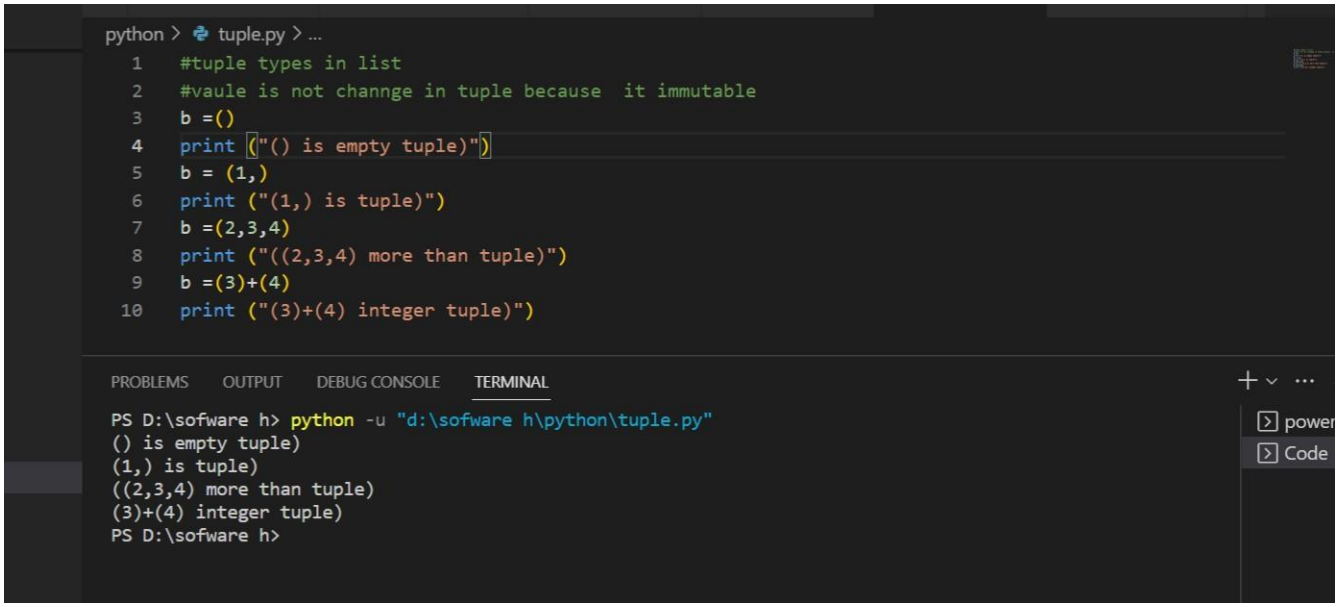
Output

```
19   list.remove(3)
20   print(list)

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS D:\sofware h> python -u "d:\sofware h\python\listmethod.py"
[1, 3, 4, 6, 7, 8]
[8, 7, 6, 4, 3, 1]
[8, 7, 6, 4, 3, 1, 9]
[8, 7, 6, 15, 4, 3, 1, 9]
[8, 7, 6, 15, 3, 1, 9]
[8, 7, 6, 15, 1, 9]
PS D:\sofware h>
```

Tuple:

Python type() is a built-in function that is used to return the type of data stored in the objects or variables in the program.

Example:



Tuple method:

Tuples are **used to store multiple items in a single variable.**