EXPERIMENT-01 (c)

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Page

AIM: Write a python program to perform the following methods 1) Add items 2) len(), 3) check for item in tuple 4) Access items.

THEORY WITH PROGRAMS

A tuple in Python is an ordered, immutable collection that allows duplicates values. Unlike lists, tuples, ccan't be modified.

Syntax:

```
tuple_name = ("item1", "item2", "item3")
```

Creating a tuple

```
fruit = ("apple", "banana", "cherry")
print("Original Tuple", fruits)
```

1) Add items

```
new_fruits = fruits + ("orange",)
print("After Adding an Item:",
      new_fruits).
```

>: Original Tuple: ('apple', 'banana', 'cherry')
After Adding an Item: ('apple', 'banana', 'cherry', 'orange')

2) len ()

```
print("Length of Tuple:", len(fruits))
```

>: Length of Tuple : 3

3) Check for an Item in Tuple

```
if "banana" in fruits:
    print("Banana is in the tuple")
else:
    print("Banana is not in the tuple")
```

>: Banana is in the tuple

4) Access items

Tuple support indexing to access items.

```
print("First Item:", fruits[0])
print("Last Item:", fruits[-1])
print("Slice (first two items):",
fruits[0:2])
```

>: First Item : apple
Last Item : cherry
Slice (first two items):
('apple', 'banana')