**TUPLE**

1. **What is Tuple?**

* Tuples are used to store multiple items in a single variable.
* Tuples are written with round brackets ().
* Tuple is Unchangeable, meaning we cannot change, add, or remove items after the tuple has been created.
* Allow duplicates.

1. **What are the tuple operations?**

* Length
* Slicing
* Concatenation
* Repetition
* Test for membership.

1. **Brief explanation of tuple operations:**

* **Length:**
* It returns the length of a Tuple.
* Example: A=(1,4,5,20,40)

Print(len(A))

Output- 5

* **Slicing:**
* Slicing in a tuple aims to fetch a specific range or slice of sub-elements from the tuple.
* Example: A=(“bhavya”)

Print(A[2::])

Output- (avya)

* **Concatenation:**
* It can be used to combine tuples to form a new tuple, though it cannot modify an existing tuple.
* Example: A= (1,2,3)

B= (4,5,6)

Print(A+B)

Output: (1,2,3,4,5,6)

* **Repetition:**
* It Repeats the original string a certain number of times.
* Example: A= (1,2,3)

Print(A\*4)

Output: (1,2,3,1,2,3,1,2,3,1,2,3)

* **Test for membership:**
* It is used to check whether a value or variable exists in a sequence or not.
* Example: tuple= (‘a’, ‘an’, ‘the’)

print (“the” in tuple)

Output- True.