

PYTHON TUPLES

Q1. What is a tuple in Python?

Ans. Tuples are used to store multiple items in a single variable. A tuple is an immutable object, which means it cannot be changed, and we use it to represent fixed collections of items.

Q2. How do you create a tuple in Python?

Ans. We can create a tuple by using ()

```
In [1]: a = (1,2,3,45,6,7,8,9,8.7)
```

```
In [2]: type(a)
```

```
Out[2]: tuple
```

Q3. What is the difference between a tuple and a list in Python?

Ans. The primary difference between tuples and lists is that tuples are immutable as opposed to lists which are mutable. Therefore, it is possible to change a list but not a tuple. The contents of a tuple cannot change once they have been created in Python due to the immutability of tuples.

Q4. Can a tuple be changed in Python?

Ans. Once a tuple is created, you cannot change its values. Tuples are unchangeable, or immutable as it also is called.

Q5. How do you access elements in a tuple?

Ans. We can access elements in tuple by simply indexing and slicing.

```
In [4]: a = (1,2,3,45,6,7,8,9,8.7)
a[3]
```

```
Out[4]: 45
```

Q6. How do you unpack a tuple in Python?

Ans. In python tuples can be unpacked using a function in function tuple is passed and in function, values are unpacked into a normal variable.