Python Tuples

Tuples are built in data types in Python

Used to store multiple items in a single variable

ex:

```
mytuple = (" ipad", "iphone", "imac")
```

Tuple items can be of any data type. A tuple can contain different data types.

Difference between list and tuple

Unlike lists, the values in a tuple cannot be changed or removed.

Tuples are immutable

Why use tuples instead of lists?

Immutability: One of the key differences between tuples and lists is that tuples are immutable, meaning that their values cannot be changed once they are created. This makes tuples useful for representing fixed collections of data that should not be modified, such as the coordinates of a point on a graph.

Performance: Because tuples are immutable, they can be faster to access and iterate over than lists, especially for large collections of data.

Syntax: Tuples are created using parentheses, while lists use square brackets. This can make it clearer in your code when you are working with a collection of data that should not be modified.

Semantics: Because tuples are immutable, they can be used to represent concepts that should not be changed, such as the components of a date or time. This can make your code more clear and self-

documenting.