In-Class Exercise - Python Tuples (Save As: tuple_exercises.py)

INSTRUCTIONS: - Read the statements below and perform the tasks.

Tuple of Integers

1. Create a tuple name **tuple1**.
2. Place the following values in tuple1: 1, 2, 3
3. Print tuple1.

Tuple of Mixed Data Types

1. Create a mixed data type tuple name **tuple2**.
2. Place the following values in tuple2: 1, "Hafa Adai", 5.7
3. Print tuple2.

Nested Tuple

1. Create a nested tuple name **tuple3**.
2. Place the following values in tuple3: "ant", (1, 2, 3), [8, 4, 6]
3. Print tuple3.

Accessing Tuple Elements

1. Create a tuple name **tuple4**.
2. Place the following values in tuple4: "p", "e", "r", "m", "i", "t"
3. Write a print statement to print the "p".
4. Write a print statement to print the "t".
5. Write a print statement to print the "t" using negative indexing.

Slicing a Tuple

1. Create a tuple name **tuple5**.
2. Place the following values in tuple5: "p", "r", "o", "g", "r", "a", "m", "i", "z"
3. Print elements from the 2nd to 4th using slicing.
4. Print elements from the beginning to the 2nd element using slicing.
5. Print from the 8th element to the end using slicing.

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Tuple Methods
count( )
index( )

1. **Create a tuple name tuple6.**
2. **Place the following values in tuple6: "b", "a", "n", "a", "n", "a"**
3. **Using a tuple method, print how many instances of "a" is in tuple6.**
4. **Using a tuple method, print the position where "b" is located in tuple6.**

Check If Item Exists in Tuple

1. **Create a tuple name tuple7.**
2. **Place the following values in tuple7: "apple", "banana", "cherry", "kiwi", "melon"**
3. **Check to see if "apple" is in the tuple, and print "Yes"**
4. **Check to see if "mango" is in the tuple, if it is print "Yes", if not, print "No"**

Traverse through a Tuple

1. **Use a for loop to traverse through tuple7 and print each fruit.**