1. Select which is true for Python tuple
2. A tuple maintains the order of items
3. A tuple is unordered
4. We cannot change the tuple once created
5. We can change the tuple once created

Ans. A & C

1. Access value 20 from the following tuple

aTuple = ("Orange", [10, 20, 30], (5, 15, 25))

**Expected output:**

20

**CODE:**

aTuple = ("Orange", [10, 20, 30], (5, 15, 25))

# Access the nested list and then index to get value 20

value\_20 = aTuple[1][1]

print("Expected output:", value\_20)

1. Unpack the following tuple into 4 variables

aTuple = (10, 20, 30, 40)

**Expected output:**

aTuple = (10, 20, 30, 40)

# Your code

print(a) # should print 10

print(b) # should print 20

print(c) # should print 30

print(d) # should print 40

**CODE:**

aTuple = (10, 20, 30, 40)

# Unpack the tuple into variables a, b, c, d

a, b, c, d = aTuple

# Print the variables

print("a:", a) # should print 10

print("b:", b) # should print 20

print("c:", c) # should print 30

print("d:", d) # should print 40

1. Copy element 44 and 55 from the following tuple into a new tuple

tuple1 = (11, 22, 33, 44, 55, 66)

**Expected output:**

tuple2 = (44, 55)

**CODE:**

tuple1 = (11, 22, 33, 44, 55, 66)

tuple2 = tuple1[3:5]

print("Expected output:")

print("tuple2 =", tuple2)

1. Counts the number of occurrences of item 50 from a tuple

tuple1 = (50, 10, 60, 70, 50)

**CODE:**

tuple1 = (50, 10, 60, 70, 50)

count\_50 = tuple1.count(50)

print("Number of occurrences of item 50:", count\_50)

1. Modify the first item (22) of a list inside a following tuple to 222

tuple1 = (11, [22, 33], 44, 55)

**Expected output:**

tuple1 = (11, [222, 33], 44, 55)

**CODE:**

tuple1 = (11, [22, 33], 44, 55)

list1 = list(tuple1)

list1[1][0] = 222

tuple1 = tuple(list1)

print("Expected output:")

print("tuple1 =", tuple1)

1. Swap the following two tuples

tuple1 = (11, 22)

tuple2 = (99, 88)

**Expected output:**

tuple1 = (99, 88)

tuple2 = (11, 22)

CODE:

tuple1 = (11, 22)

tuple2 = (99, 88)

tuple1, tuple2 = tuple2, tuple1

print("Expected output:")

print("tuple1 =", tuple1)

print("tuple2 =", tuple2)

1. Reverse the following tuple

aTuple = (10, 20, 30, 40, 50)

**Expected output:**

(50, 40, 30, 20, 10)

CODE:

aTuple = (10, 20, 30, 40, 50)

reversed\_tuple = aTuple[::-1]

print("Expected output:")

print(reversed\_tuple)

1. Select true statements regarding the Python tuple
2. We can remove the item from tuple but we cannot update items of the tuple
3. We cannot delete the tuple
4. We cannot remove the items from the tuple
5. We cannot update items of the tuple.

Ans. B & D