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# Write a python script to store multiple items in a single variable

t1 = ("JAVA", "Python", "SQL", "C")
print(t1)
print(type(t1))

# Write a python program to store only one item using tuple.

t2 = ("iNeuron",)
print(t2)
print(type(t2))

 # Write a python program to reverse the tuple.

t3 =  ("JAVA", "Python", "SQL", "C")
print(t3[::-1])


# Write a python program to Swap two tuples in Python.

t4 = ("JAVA", "Python", "SQL", "C")
t5 = ("JAVASCRIPT", "REACTJS","MONGODB","NODEJS")

print(t4,t5)

t4,t5 = t5,t4

print(t4,t5)

# Write a python program to check if all items in the tuple are the same.

t6 = ("Java","Java","Java")

result = t6.count(t6[0]) == len(t6)

if (result):
    print("All the elements are equal")
else:
    print("Elements are not equal")

# Write a python program to divide the tuple into four variables.

tuple1 = (100,200,300,400)

t1,t2,t3,t4 = (100,200,300,400)

print(t1)
print(t2)
print(t3)
print(t4)

# Write a python program to copy elements 4 and 5 from the following
tuple into a new tuple.

tuple1 = (1,2,3,4,5,6)

tuple2 = tuple1[3:5]
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print(tuple2)

# Write a python program to Sort a tuple of tuples by the second item.

tuple1 = (('a', 21),('b', 37),('c', 11), ('d',29))

tuple1 = tuple(sorted(list(tuple1), key=lambda x: x[1]))
print(tuple1)

# Write a python program to print the value 20 from given nested tuple

tuple1 = ("Python", [10, 20, 30], (2, 4, 16))

print(tuple1[1][1])

# Write a python program to change the first item (22) of a list within
the following tuple to 222.

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

tuple1[1][0] = 222

print(tuple1)
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