1. Write a python script to store multiple items in a single variable (Items are “Java”

,“Python”, “SQL”, “C”) using tuple.

```
t=("java","python","SQL","C")
print(t)
```

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

```
t=("java",)
print(t)
```

3. Write a python program to reverse the tuple.

```
t=("java","python","SQL","C")
i=len(t)-1
while (i>=0):
    print(t[i])
    i=i-1
```

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

```
tuple1=(100, 200, 300, 400)
tuple2 =("python","java","sql","C")
t=tuple1
tuple1=tuple2
tuple2=t
print(tuple1)
print(tuple2)
```

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

```
def all_items_same(tuple_to_check):
    return len(set(tuple_to_check)) == 1

tuple1 = (5, 5, 5, 5)
tuple2 = ("java","python","sql","C")

print(all_items_same(tuple1))
print(all_items_same(tuple2))
```

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

tuple1=(100, 200, 300, 400)

```
tuple1 = (100, 200, 300, 400)
var1, var2, var3, var4 = tuple1

print("var1:", var1)
```

```
print("var2:", var2)
print("var3:", var3)
print("var4:", var4)
```

7. 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)

```
tuple1 = (1, 2, 3, 4, 5, 6)
new_tuple = tuple1[3:5]
print(new_tuple)
```

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

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

```
tuple1 = (('a', 21), ('b', 37), ('c', 11), ('d', 29))
sorted_tuple = sorted(tuple1, key=lambda x: x[1])
print(sorted_tuple)
```

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

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

```
tuple1 = ("Python", [10, 20, 30], (2, 4, 16))
print(tuple1[1][1])
```

10. 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 = (11, [22, 33], 44, 55)
tuple1[1][0]=222
print(tuple1)
```