

Tuple Exercises

Q1. Consider the given tuple and write the output of given statements: T1 = (1, 23, 4, 5, "A", ["C", "D"], (23,45), 45)

1. print(len(T1))
2. print(T1.index(45))
3. print(T1.count(45))
4. print(T1[5][0]*2)
5. print(T1[:5])
6. print(T1[5:])
7. print(T1.index("A"))
8. print(T1[-1:-7:-2])
9. print(T1[4] T1[5])
10. print(max(T1))

Q2. Write a program to accept five numbers from the user and store these numbers in a tuple. Display the following from tuple:

1. Largest number
2. Smallest number
3. Sum of all numbers
4. Average of all numbers

Q3. Write a program in python to print the second largest element in tuple given below:

T1 = (23, 45, 87, 45, 67, 43, 23, 12)

Q4. Write a program to display the sum of all the numbers in a given tuple:

T1 (1, 2, 3, 'A', 'B', 4, 'Sun')

Q5. Write a program to find the sum of marks of all students stored in the given tuple.

T1 = (("Suman", 75), ("Glory", 35), ("Ravi",50))

Expected Output is: 160

Q6. Write a program to print the common elements of given tuples:

T1 (1, 2, 3, 4, 5, 6)

T2 (3, 5, 7, 9, 11)

Expected Output: 3,5

Q7. Write a program to find the union (Common element include once) of given tuples:

T1 (1, 2, 3, 4, 5, 6)

T2 (3, 5, 7, 9, 11)

Expected Output: 1, 2, 3, 4, 5, 6, 7, 9, 11

Q8. Write a program to store the sum of all sub tuples of given tuple into a new tuple. for example T1 = ((1, 2, 3), (45, 23), (98, 34, 67), (34, 56, 78, 9)) #Original Tuple

T2 = (6, 68, 199, 177) # New Tuple

Q9. Write a program to store the maximum value of all sub tuples of given tuple into a new tuple. for example

T1 = ((1, 2, 3), (45, 23), (98, 34, 67), (34, 56, 78, 9), ("A", "B", "c")) #Original Tuple

T2 = (3, 45, 98, 78, c) # New Tuple

Q10. Write a program to display the longest sub tuple from the given tuple.

T1=((1, 2, 3), (45, 23), (98, 34, 67), (34, 56, 78, 9)) #Original Tuple

T2= (34, 56, 78, 9) # New Tuple

Q11. Write a program that inputs two tuples seq_a and seq_b and prints True if every element in seq_a is also an element of seq_b, else prints False.

Output: Enter the first tuple: 1,3,5

Enter the second tuple: 4,5,1,3

True