

## DSA with python Lab Assignment-2

1. Write a Python program that defines a NamedTuple called Employee with fields like name, age, and country. Create 3 Employee objects. Print each employee's name and country
2. Write a Python program that defines a NamedTuple called Point with fields x, y and z representing the coordinate of a point. Access and print the fields of 2 point objects.
3. Write a Python program to create a deque and append a few elements to the left and right. Next, remove some elements from the left and right sides and reverse the deque.
4. Write a Python program that sorts the OrderedDict by its keys. Sort the OrderedDict by its values as well.
5. Write a program that allows to input a string and creates a dictionary with the count of the characters present in the string as values and characters as the keys(using counter object)
6. Write a program to create a ChainMap object with 4 different dictionaries containing registration number as a key and mark as a value.
7. Write a program to perform linear search in a list
8. Write a program to perform binary search in a list
9. Write a program to perform merge sort on a list of integers
10. Write a recursive function to find nth Fibonacci number