The difference between Python and another language. What is data? different types of data. Introduction to Loops and Types of Loops, Explanation on For Loop and example and problem on the for loop, Introduction to while

What is a While Loop? The difference between while and for loops. Examples and problems on while loops

What are Arrays? Why do we use arrays? Different methods and predefined functions on arrays. Difference between array and another data type. Examples on arrays

Problem on arrays. Introduction to 2D Arrays and multi Dimensional arrays.

Problem on arrays. What are sets and Dictionaries? Why do we use Dictionaries and Sets? Type of sets methods or functions. Problem on Dictionaries and sets

What are String's methods? why do we use string methods and types of string methods? Introduction to Functions

Problem using Function and introduction to recursion. What is recursion? Why do we use recursion?

Problem using recursion and function

What is searching? Why do we use Searching? Type of Searching. Implementation of Linear and Binary Searching. What is Sorting? Why do we use sorting? Types of Sorting. Implementation of Bubble and insertion sort.

Implementation of Merge and Quick sorting. What is 2-pointer and the implementation of a subsequence

What is OOPS? Why do we use oops? Overview of OOPs. What is class, object and instance. Concept on OOPs: Abstraction, Encapsulation, Inheritance, Polymorphism. Implementation of OOPs with real time example (Car)

Introduction to Single-Linked List. Implementation of a single-linked list. Creating a Node. Insertion at the beginning, Insertion at the end, insertion at a position, traverse, search for the element in a Single-Linked List. Introduction to Double-Linked List