**List of Programs to practice**

**Python Programs**

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| **S.No** | **Program Description** |
|  | Illustrate List: insertion, appending, removing, Indexing, Slicing, Mutability, predefined operations |
|  | Illustrate Tuple: Indexing, Slicing, Immutability, predefined operations |
|  | Illustrate Dictionary: insertion, appending, removing, Key, values, retrieving, predefined operations |
|  | Illustrate String: Indexing, Slicing, Immutability, predefined operations |
|  | Write a program in Python to compute GCD of given numbers using recursion |
|  | Write a program in Python to compute LCM of given numbers using recursion |
|  | Write a program to find whether a string is palindrome |
|  | Implement recursive Linear Search |
|  | Implement iterative Linear Search |
|  | Implement recursive Binary Search |
|  | Implement iterative Binary Search |
|  | Implement Bubble Sort |
|  | Implement Selection Sort |
|  | Implement Matrix Multiplication |
|  | Implement Matrix Addition |
|  | Demonstrate accumulation on a list |
|  | Demonstrate Dictionary accumulation |
|  | Find factorial of a given number using recursion and iteration |
|  | Find nth Fibonacci number using recursion |
|  | Write a program to read the contents of a file and count the unique characters |
|  | Write a program to copy the contents source file to destination file line by line |
|  | Write a function to read ‘n’ elements and return minimum, maximum and average of the list of elements. |
|  | Write a program in python to determine the unique words and their frequency in a given string |
|  | Write a program to find the size of a text file |
|  | Illustrate the usage of tell() and seek() functions |
|  | Build a dictionary with name and phone nos. Search whether a given mobile no. is present in the dictionary, it is present display the mobile no and name otherwise report entry missing |
|  | Demonstrate positional arguments and key word arguments used in functions |
|  | Write the details of ‘n’ students into a .csv file. Details include RNo, Name, Branch, EAMCET rank |