**Principles of Programming Languages (RCS-553 )**

**Lab Objective:-**

1. **Write all the programs in files from 1-9 +section II:**
2. **Program for linear search in PYTHON**
3. **Program for binary search in PYTHON**
4. **Program for insertion sort in PYTHON**
5. **Program for selection sort in PYTHON**
6. **Program for bubble sort in PYTHON**
7. **Program for merge sort in PYTHON**
8. **Program for Quick sort in PYTHON**
9. **Program for making a dictionary in PYTHON**
10. **Program for merging two unsorted-students-name-lists in sorted order**

**II. Write any five programs from the given list of programs below (10-19):**

**10) PYTHON program to print all the prime number within a given range.**

**11) PYTHON program to replace all occurrences of a with $ in a given string.**

**12) PYTHON program to reverse a string using recursion.**

**13) To count the occurrence of each word in a given sentences of string.**

**14) Write a Program in PYTHON to print pascals triangle.**

**15) PYTHON program to find the odd /even numbers in given range of numbers.**

**16) Python program to find the sum of n natural numbers which is a divisor of particular number.**

**17) Write a program in Python to find the number of times a particular number repeats itself in a given list of numbers.**

**18) Write a factorial of a number given by users.**

**19) Write a program in python to count the number of space between the given sentences of strings.**