

**Computer Department**

**Name of Programme: - CO**

**Name of Course: - Data Structure using C (SEM-III Winter-2024)**

**Course Outcome. – Apply different Searching and Sorting techniques.**

**Assignment –II**

**2 Marks Questions.**

1. Define searching. Give its type
2. Differentiate between binary search and linear search.
3. What is sorting.

**4 Marks Questions.**

1. Describe binary search algorithm. Give example to search an element using binary search.
2. Write an algorithm for insertion sort and arrange given numbers in ascending order using insertion sort : 9, 15, 5, 20, 10
3. Perform Quick sort on the following list to arrange elements in ascending order.

18,25,10,2,80,75,58,97,36

1. Explain Bubble sort with example.
2. Perform Selection sort on the following list to arrange elements in ascending order.

12,29,25,8,32,17,40.

**Last Date Of submission: 8/8/2024**

**Name of course coordinator: - Mrs. Kirti Tamboli**