**Algorithms**

**1 . Searching**

1. **Linear Search**

* It is also known as sequential search

Approach :-

* Start from the leftmost element of the array and one by one compare the key(to find) with each element of the array .
* If the key matches with any element return the index
* In any other case of not finding return -1

Algorithm linearSearch(A , key , n)

Input : A – the array with number of n elements

key – the element to search

1 . for i <- 0 to n do

2 . if A[i] = key then

3 . return i

4 . end if

5 . return -1

Time-comlexity = O(n)

1. **Binary Search**

**2 . Sorting**