1)LINEAR SEARCH:

One of the most straightforward and elementary searches is the sequential search, also known as a linear search

```
public class Main
       public static void main(String[] args) {
          Scanner sc=new Scanner(System.in);
          System.out.println("Enter the size of list:");
          int n=sc.nextInt();
          System.out.println("Enter the elements:");
          int a[]=new int[n];
          for(int i=0;i<n;i++)
          {
             a[i]=sc.nextInt();
          }
          int x;
          System.out.println("Enter the element to search:");
          x=sc.nextInt();
          int flag=0;
          int i=0;
          while(flag==0 && i<n)
             if(a[i]==x)
               flag=1;
             j++;
          }
          if(flag==1)
             System.out.println("The element found at "+i+" th position");
             System.out.println("Not found");
       }
}
```

OUTPUT:

```
Enter the size of list: 5
Enter the elements:
```

42789

Enter the element to search:

8

The element found at 4 th position