1. Write a C program to search for a key element using linear search.
2. Write a C program to the sort the numbers using bubble sort

1.
```
#include <stdio.h>
#include <stdlib.h>
void main()
{
  int a[10];
  int i,n,key;
  printf("Read n:");
  scanf("%d",&n);
  printf("enter the elements:");
  for(i=0;i<n;i++)
  {
    scanf("%d",&a[i]);
  }
  printf("enter the key element:");
  scanf("%d",&key);
  for(i=0;i<n;i++)
  {
    if(a[i]==key)
    {
      printf("key found");
      exit(0);
    }
  }
  printf("key not found");
}
```

Output:

Read n: 5
enter the elements : 21 22 35 34 46
enter the key element: 35
key found.

2.
```
#include <stdio.h>
#include <stdlib.h>
void main()
{
  int a[10];
  int i,j,n;
  int temp;
  Printf ("read n");
  scanf ("%d",&n);
  printf ("enter the elements:");
  for(i=0;i<n;i++)
  {
    scanf("%d",&a[i]);
  }
  for(j=0;j<n-1;j++)
  {
    for(i=0;i<n-1;i++)
    {
      if (a[i]>a[i+1])
      {
        temp=a[i];
        a[i]=a[i+1];
        a[i+1]=temp;
      }
    }
  }
  for(i=0;i<n;i++)
  {
    printf("%d\t",a[i]);
  }
}
```

05.12.22

output
read n:5
enter the elements: 21 34 98 32 11
21 32 34 98