

## LINEAR SEARCH:

### Code:

```
using namespace std;

#include <iostream>

#include<conio.h>

void sear(int ar[],int n,int search)

{

    bool flag=false;

    for(int i=0;i<n;i++)

    {

        if(ar[i]==search)

        {

            flag=true;

            cout<<"Element "<<search<<" is at index: "<<i<<<"Element not found"< "<<i<<endl;

        }

    }

    if(flag==false)

    {

        cout<<"Element not found"<<endl;

    }

}

Int main(void)

{

    int n;

    int search;

    cout<<"LINEAR SEARCH: "<<endl;

    cout<<"Enter the size of array: "<<endl;

    cin>>n;

    cout << "Enter "<<n<<" numbers: " << endl;

    int ar[n];

    for (int i = 0; i<n;++i)
```

```
{  
cin>> ar[i];  
}  
cout << "Enter element to search: " << endl;  
cin>>search;  
sear(ar,n,search);  
}
```

**Output:**

**Linear Search:**

**Enter the size of array:**

**5**

**Enter 5 numbers:**

**1**

**2**

**3**

**4**

**5**

**Enter element search:4**

**Element 4 is at index :3**