Discrete Structure & Logic Lab

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LAB 9 :- Write a Program in C++ language to implement Linear Search.

```
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//04-11-2022


#include <iostream>

using namespace std;

int main()

{

    int n,key,a[1000],start=0,flag=0;

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

    cin>>n;

    cout<<"Enter find key position of: ";

    cin>>key;

    cout<<"Enter the element : ";

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

        cin>>a[i];
```

```
    while(start<n){
        if(a[start]==key){
            cout<<"Element is present at the position of : "<<start;
            flag=1;
            break;
        }
        else
            start++;
    }
    if(!flag)
        cout<<"Element does not found";
    return 0;
}
```

```cpp
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#include <iostream>
using namespace std;
int main()
{
    int n,key,a[1000],start=0,flag=0;
    cout<<"Enter the size of array : ";
    cin>>n;
    cout<<"Enter find key position of: ";
    cin>>key;
    cout<<"Enter the element : ";
    for(int i=0;i<n;i++)
        cin>>a[i];
    while(start<n){
        if(a[start]==key){
            cout<<"Element is present at the position of : "
                <<start;
            flag=1;
            break;
        }
        else
            start++;
    }
    if(!flag)
        cout<<"Element does not found";
    return 0;
}
```

```
/tmp/6MvEqpmdwO.o
Enter the size of array : 5
Enter find key position of: 6
Enter the element : 2 4 6 8 9
Element is present at the position of : 2
```