**Linear Search**

#include <iostream>

using namespace std;

int main()

{

   int i,j,size,a[100],key;     cout<<"\n Enter size of array ";     cin>>size; cout << "\n Enter array element " << endl;     for(i=0;i<size;i++) cin>>a[i]; cout<<"\n Enter key value you want to search ";     cin>>key; for(i=0;i<size;i++) if(a[i]==key) { cout<<"\n key element found at position "<<i;         break; } if(a[i]!=key) { cout<<"\n element not found";

   }  return 0;

}

**Output :**

Enter size of array 5

Enter array element

10

20

30

40

50

Enter key value you want to search 30

key element found at position 2