```c
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   DATE          :15/9/22
   PROGRAM       :LINEAR SEARCH
   INSTITUTION   :MES COLLEGE OF ENGINEERING */


#include<stdio.h>
void main()
{

        int a[100],i,n,x,flag=0,y=0,k;
        printf("Enter the size of array");
        scanf("%d",&n);
        printf("Enter the element in array");
        for(i=0;i<n;i++)
        {
                scanf("%d",&a[i]);
        }
        while(y!=1)
        {
        printf("Enter the elements to search");
        scanf("%d",&x);
        for(i=0;i<n;i++)
        {
                if(a[i]==x)
                {
                flag=1;
                break;
                }
        }
        if(flag==1)
        {
            printf("Element found at %dth index",i+1);
        }
        else
        {
            printf("Element not found");
        }
        printf("\npress '1' to continue");
        printf("\npress '0' to stop");
        scanf("%d",&k);
        if(k==1)
                y=0;
        else
                y=1;
        }
}
```

Output :-

Enter the size of array
5
Enter the element in array

4
2
3
5
1
Enter the elements to search
1
Element found at 5th index
press '1' to continue
press '0' to stop
1
Enter the elements to search
6
Element not found
press '1' to continue
press '0' to stop
0