**Linear search**

**#include <stdio.h>**

**int main()**

**{**

**int a[10];**

**int n, i, num;**

**printf("enter the size of array \n");**

**scanf("%d", &n);**

**printf("enter the element of array \n");**

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

**{**

**scanf("%d", &a[i]);**

**}**

**printf("enter the number that you want to search \n");**

**scanf("%d", &num);**

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

**{**

**if (num == a[i])**

**{**

**printf("number is found at %d location \n", i + 1);**

**printf("number is found at %d index", i);**

**break;**

**}**

**}**

**if (i == n)**

**{**

**printf("NUMBER IS NOT FOUND IN THIS ARRAY");**

**}**

**return 0;**

**}**

