**8. Write a C program to search a number using Linear Search method**

**#include <stdio.h>**

**int main() {**

**int arr[100], n, i, num, found = 0;**

**printf("Enter number of elements: ");**

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

**printf("Enter elements:\n");**

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

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

**printf("Enter number to search: ");**

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

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

**if(arr[i] == num) {**

**found = 1;**

**break;**

**}**

**}**

**if(found)**

**printf("%d found at position %d\n", num, i+1);**

**else**

**printf("%d not found in the array\n", num);**

**return 0;**

**}**

**Output**

