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

```
#include <stdio.h>
int main() {
  int arr[100], n, i, key, found = 0;
printf("Enter number of elements: ");
  scanf("%d", &n);
  printf("Enter %d elements:\n", n);
  for(i = 0; i < n; i++) {
    scanf("%d", &arr[i]);
 }
printf("Enter number to search: ");
  scanf("%d", &key);
  for(i = 0; i < n; i++) {
    if(arr[i] == key) {
      printf("Element %d found at position %d.\n", key, i + 1);
      found = 1;
      break;
   }
 }
  if(!found) {
    printf("Element %d not found in the array.\n", key);
  }
  return 0;}
```

OUTPUT: