Experiment-7 : Linear Search

7.Write a C Program Using Linear Search To Find Element In An Array.

Code :

#include <stdio.h>

int linearSearch(int arr[], int n, int key) {

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

if (arr[i] == key) {

return i;

}

}

return -1;

}

int main() {

int arr[] = {2, 5, 8, 12, 16, 23, 38, 56, 72, 91};

int n = sizeof(arr) / sizeof(arr[0]);

int key = 23;

int result = linearSearch(arr, n, key);

if (result != -1) {

printf("Element found at index: %d", result);

} else {

printf("Element not found");

}

return 0;

}

**Output** :

}