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**COURSE NAME : DATA STRUCTURES FOR MODERN COMPUTING SYSTEMS**

**COURSE CODE : CSA0302**

**5.** **WRITE A C PROGRAM TO PERFORM LINEAER SEARCH IN AN ARRAY**

**C PROGRAMMING CODE:**

#include <stdio.h>

int main() {

int a[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", &a[i]);

printf("Enter element to search: ");

scanf("%d", &key);

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

if(a[i]==key){

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

found=1;

break;

}

}

if(!found) printf("Element not found\n");

return 0;

}

**OUTPUT:**

