Q. WRITE A PROGRAM TO SHOW THE FUNCTION OF LINEAR SEARCH OR SEQUENTIAL SEARCH IN ARRAYS.

A. /\*

Program name:082\_arraysearch.c

Task;This program is an example of linear search in programming.This is also known as sequential search.

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#include<stdio.h>

#include<stdlib.h>

#include<time.h>

int main()

{

int arr[20],i,element\_found,key;

srand==time(0);

for(i=0;i<20;i++)

{

arr[i]=rand()%100;

printf("%d-->",arr[i]);

}

printf("\nEnter the value you want to search\n:");

scanf("%d",&key);

for(i=0;i<20;i++)

{

if(key==arr[i])

{

element\_found=1;

break;

}

}

if(element\_found==1)

{

printf("The value you are searching for is in %d index",i);

}else{

printf("The value you are searching for is not in any index...");

}

return 0;

}

OUTPUT:



