**DSC Practice LAB – {4A}**

Akshaya agarwal

2247207

3-MCA B

**CODE :**

**#include <stdio.h>**

**#include <stdlib.h>**

**#include <stdbool.h>**

**#include <string.h>**

**void input(char arr[][10],int n){**

**int i;**

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

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

**}**

**}**

**void search(char arr[],char patt[]){**

**int flag = 0,i,j;**

**int n = strlen(arr);**

**int m = strlen(patt);**

**if(strcmp(arr,patt) == 0)**

**return;**

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

**int j;**

**for(j = 0;j<m;j++){**

**if(arr[i+j]!=patt[j])**

**break;**

**}**

**if(j==m){**

**printf("%s is found in %s at index %d\n",patt,arr,i);**

**return;**

**}**

**}**

**}**

**void main(){**

**int n,m,i,j;**

**printf("Enter the number of words you want to give : ");**

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

**char arr[n][10];**

**printf("Enter the words now : ");**

**input(arr,n);**

**printf("[ ");**

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

**printf("\"%s\"",arr[i]);**

**if(i!=n-1)**

**printf(" , ");**

**}**

**printf("]\n");**

**printf("Enter the quantity of words to be searched : ");**

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

**char patt[m][10];**

**printf("Enter the patterns to search : ");**

**input(patt,m);**

**printf("[ ");**

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

**printf("\"%s\"",patt[i]);**

**if(i!=m-1)**

**printf(" , ");**

**}**

**printf("]\n");**

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

**for(j = 0;j<m;j++){**

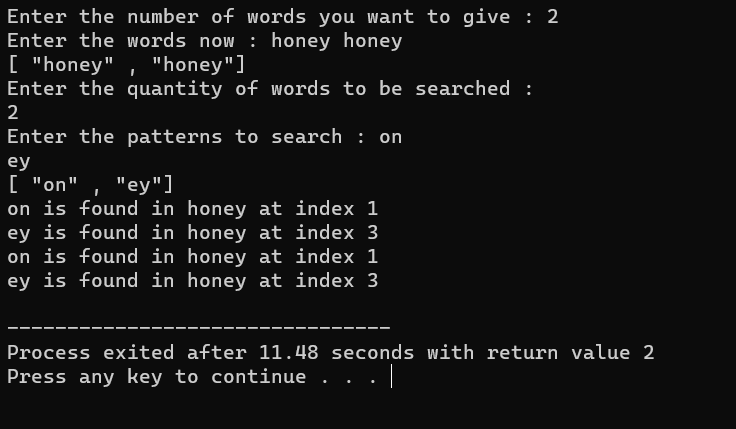
**search(arr[i],patt[j]);**

**}**

**}**

**}**

**OUTPUT :**

****