

3. Implement a C program to check if a given element is present in a 2D array with a user defined function.

```
#include <stdio.h>

void find_key(int a[10][10], int key,int m,int n);

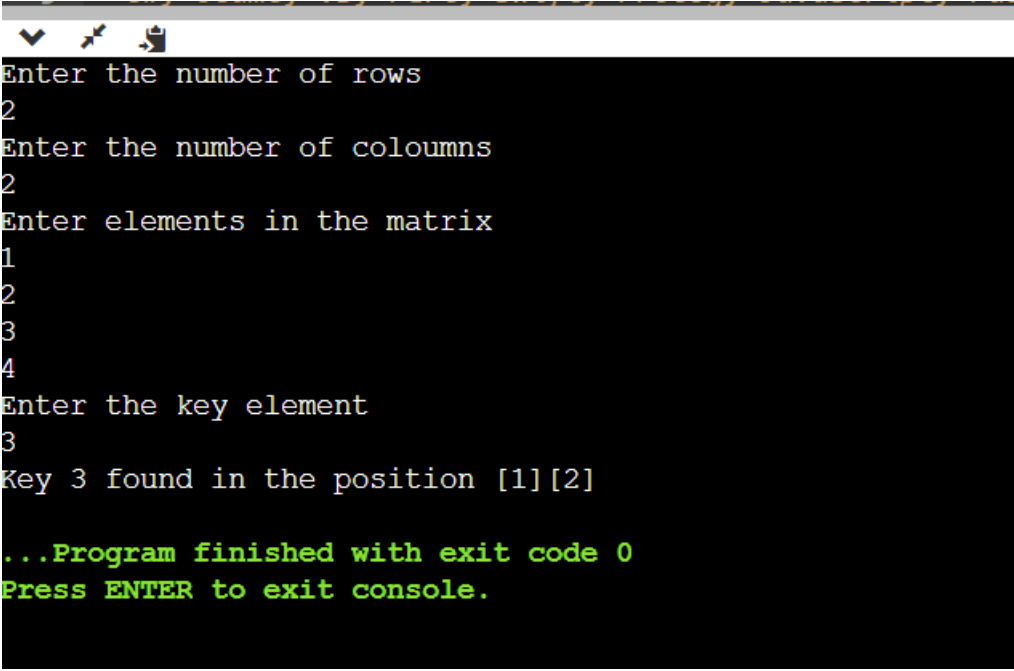
void main()
{
    int a[10][10];
    int i,j,n,m;
    int key;
    printf("Enter the number of rows\n");
    scanf("%d",&m);
    printf("Enter the number of coloumns\n");
    scanf("%d",&n);
    printf("Enter elements in the matrix\n");
    for(j=0;j<n;j++)
    {
        for(i=0;i<m;i++)
        {
            scanf("%d",&a[i][j]);
        }
    }
    printf("Enter the key element\n");
    scanf("%d",&key);
    find_key(a , key,m,n);
}
```

```

void find_key(int a[10][10],int key,int m,int n)
{
    int i,j;
    for(j=0;j<n;j++)
    {
        for(i=0;i<m;i++)
        {
            if(key==a[i][j])
                printf("Key %d found in the position [%d][%d]",key,i+1,j+1);
        }
    }
}

```

OUTPUT:



```

Enter the number of rows
2
Enter the number of coloumns
2
Enter elements in the matrix
1
2
3
4
Enter the key element
3
Key 3 found in the position [1][2]

...Program finished with exit code 0
Press ENTER to exit console.

```