

5. Write a C program to find the index of the last occurrence of a number in an array with a user defined function.

```
#include <stdio.h>

#include <stdlib.h>

void last_index(int *a,int key,int n)
{
    int i;
    for(i=n;i>=0;i--)
    {
        if(a[i]==key)
        {
            printf("The number %d is found at the index %d",key,i);
            exit(0);
        }
    }
    printf("The number not found\n");
}

void main()
{
    int a[10];
    int i,n,key;
    printf("Enter the number of elements in an array\n");
    scanf("%d",&n);
    printf("Read array elements\n");
    for(i=0;i<n;i++)
```

```
{
    scanf("%d",&a[i]);
}

printf("Enter the number whose last index to be found\n");
scanf("%d",&key);
last_index(a,key,n);
}
```

OUTPUT:

```
Enter the number of elements in an array
5
Read array elements
1
2
3
4
2
Enter the number whose last index to be found
2
The number 2 is found at the index 4
Process returned 0 (0x0)    execution time : 17.645 s
Press any key to continue.
|
```