

LABORATORY REPORT

for

COURSE NAME: **Course Name**

LAB COURSE CODE: **Subject code**

SEMESTER: **Semester**

Of

YOUR NAME

Roll No: XXX

Registration No: XXX

Of 2022-2023

in

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Accredited by

NATIONAL BOARD OF ACCREDITATION

ACADEMIC SESSION:2019-2023

BUDGE BUDGE INSTITUTE OF TECHNOLOGY

Nischintapur, Budge Budge, Kolkata-700137



Accredited by

NATIONAL ASSESMENT AND ACCREDITATION COUNCIL

Bangalore, Karnataka, India-560072

&

Affiliated to

MAULANA ABULKALAM AZAD UNIVERSITY OF TECHNOLOGY

(Formerly West Bengal University of Technology)

Haringhata West Bengal 741249

&

Approved by

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

NEW DELHI, INDIA-110070

Table of Contents

S. No.	Program Name	Page No.	Program Date	Date of Submission	Signature of Teacher
1	Write a Program in C to implement the following operation in an array: <i>Insert an element in an array</i>	1	14.07.2022	21.07.2022	
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

- **File Name:** Lab_Day-1_Prog1.c
- **Program Name:** Write a Program in C to implement the following operation in an array: *Insert an element in an array*
- **Source Code:**

```
#include <stdio.h>
main()
{
    int x,pos,i;
    int n=5;
    int arr[10]={ 1,2,3,4,5};
    printf("Enter a number to be inserted: ");
    scanf("%d",&x);
    printf("Enter the position: ");
    scanf("%d",&pos);

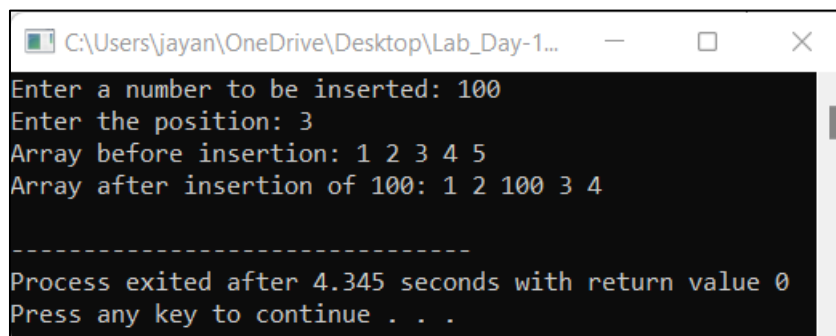
    // print the original array
    printf("Array before insertion: ");
    for (i = 0; i < n; i++)
    {
        printf("%d ", arr[i]);
    }
    printf("\n");

    // shift elements forward
    for (i = n-1; i >= pos; i--)
    {
        arr[i] = arr[i - 1];
    }

    // insert x at pos
    arr[pos - 1] = x;

    // print the updated array
    printf("Array after insertion of %d: ",x);
    for (i = 0; i < n; i++)
    {
        printf("%d ", arr[i]);
    }
    printf("\n");
}
```

- **Output:**



```
C:\Users\jayan\OneDrive\Desktop\Lab_Day-1...
Enter a number to be inserted: 100
Enter the position: 3
Array before insertion: 1 2 3 4 5
Array after insertion of 100: 1 2 100 3 4

-----
Process exited after 4.345 seconds with return value 0
Press any key to continue . . .
```