2022-2026-CSE-C

Aim:

Write C program to insert and delete the element of one dimensional array

Source Code:

```
<u>array.c</u>
```

```
//c program to insert and delete the element of one dimensional array
// 24-03-2023
// insert delete.c
#include<stdio.h>
void main()
   int a[10],i,n,pos,p,new;
   printf("Enter the size of the array: ");
   scanf("%d",&n);
   printf("Enter the elements of the array:\n");
   for(i=0;i<n;i++)</pre>
      scanf("%d",&a[i]);
 }
    printf("Enter the position where you want to insert an element: ");
    scanf("%d",&p);
    printf("Enter the value to insert: ");
    scanf("%d",&new);
    for(i=n;i>=p;i--)
      a[i+1]=a[i];
    }
    a[p]=new;
    printf("Element inserted successfully!\n");
    printf("Enter the position of the element you want to delete: ");
    scanf("%d",&pos);
    for(i=pos;i<=n;i++)</pre>
    {
      a[i]=a[i+1];
    }
    printf("Element deleted successfully!\n");
    printf("Updated array:\n");
    for(i=0;i<n;i++)
    printf("%d ",a[i]);
    printf("\n");
    }
```

Execution Results - All test cases have succeeded!

Test Case - 1 User Output Enter the size of the array: 4 Enter the elements of the array: 1 5 2 3 Enter the position where you want to insert an element: 2

Enter the value to insert: 11 Element inserted successfully! 4 Enter the position of the element you want to delete: 4 Element deleted successfully! Updated array: 1 5 11 2

Test Case - 2
User Output
Enter the size of the array: 7
Enter the elements of the array: 11 22 33 44 55 66 77
Enter the position where you want to insert an element: 1
Enter the value to insert: 88
Element inserted successfully! 7
Enter the position of the element you want to delete: 7
Element deleted successfully!
Updated array:
11 88 22 33 44 55 66