2022-2026-CSE-B

Aim:

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

Source Code:

```
array.c
```

```
#include<stdio.h>
int main()
   int a[20],n,new,i,pos;
   printf("Enter the size of the array: ");
   scanf("%d",&n);
   printf("Enter the elements of the array:\n");
   for(i=0;i<n;i++)
      scanf("%d",&a[i]);
   }
   printf("Enter the position where you want to insert an element: ");
   scanf("%d",&pos);
   printf("Enter the value to insert: ");
   scanf("%d",&new);
   for(i=n-1;i>=pos;i--)
   {
      a[i+1]=a[i];
   }
   a[pos]=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