7. Write a C program to implement Array operations such as Insert, Delete and Display.

Program:

#include <stdio.h>

#include <stdlib.h>

int main()

{

int a[100];

int element,i,loc,size,n,j,choice;

printf("C Program to Insert and Delete an Element in an Array using switch case\n");

printf("1. Inserting an Element in an Array\n");

printf("2. Deleting an Element in an Array\n");

printf("Select your choice : ");

scanf("%d",&choice);

switch(choice)

{

case 1:

printf("Enter the size of an array\n");

scanf("%d",&size);

printf("Enter %d array elements\n",size);

for(i=0;i<size;i++)

{

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

}

printf("List before Insertion: ");

for(i=0;i<size;i++)

{

printf("%d ",a[i]);

}

printf("\nEnter an element to insert\n");

scanf("%d",&element);

printf("Enter a position to insert an element %d\n",element);

scanf("%d",&loc);

loc--;

for(i=size-1;i>=loc;i--)

{

a[i+1]=a[i];

}

a[loc]=element;

printf("List after Insertion: ");

for(i=0;i<size+1;i++)

{

printf("%d ",a[i]);

}

break;

case 2:

printf("Enter the size of an array\n");

scanf("%d",&size);

printf("Enter elements\n");

for(i=0;i<size;i++)

{

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

}

printf("List before deletion\n");

for(i=0;i<size;i++)

{

printf("%d ",a[i]);

}

printf("\nEnter an element to delete\n");

scanf("%d",&n);

for(i=0;i<size;i++)

{

if(a[i]==n)

{

for(j=i;j<(size-1);j++)

{

a[j]=a[j+1];

}

break;

}

}

printf("List after deletion\n");

for(i=0;i<(size-1);i++)

{

printf("%d ",a[i]);

}

break;

default:

printf("Wrong choice, Please try again later");

}

return 0;

}

Output: