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

**#include <stdio.h>**

**int main() {**

**int arr[100], n, i, pos, value, choice;**

**printf("Enter number of elements: ");**

**scanf("%d", &n);**

**printf("Enter elements:\n");**

**for(i = 0; i < n; i++)**

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

**do {**

**printf("\n1.Display 2.Insert 3.Delete 4.Exit\nChoice: ");**

**scanf("%d", &choice);**

**switch(choice) {**

**case 1:**

**printf("Array: ");**

**for(i = 0; i < n; i++)**

**printf("%d ", arr[i]);**

**printf("\n");**

**break;**

**case 2:**

**printf("Position to insert (1-%d): ", n+1);**

**scanf("%d", &pos);**

**printf("Value: ");**

**scanf("%d", &value);**

**for(i = n; i >= pos; i--)**

**arr[i] = arr[i-1];**

**arr[pos-1] = value;**

**n++;**

**break;**

**case 3:**

**printf("Position to delete (1-%d): ", n);**

**scanf("%d", &pos);**

**for(i = pos-1; i < n-1; i++)**

**arr[i] = arr[i+1];**

**n--;**

**break;**

**case 4:**

**printf("Exiting.\n");**

**break;**

**default:**

**printf("Invalid choice!\n");**

**}**

**} while(choice != 4);**

**return 0;**

**}**

**Output**

