**Question 1**

Write the program for deleting an element from the beginning and from any position of an array.

**Solution:**

#include <stdio.h>

#define MAX\_SIZE 100

int main()

{

int arr[MAX\_SIZE];

int i, size, pos;

/\* Input size and element in array \*/

printf("Enter size of the array : ");

scanf("%d", &size);

printf("Enter elements in array : ");

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

{

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

}

/\* Input element position to delete \*/

printf("Enter the element position to delete : ");

scanf("%d", &pos);

/\* Invalid delete position \*/

if(pos < 0 || pos > size)

{

printf("Invalid position! Please enter position between 1 to %d", size);

}

else

{

/\* Copy next element value to current element \*/

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

{

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

}

/\* Decrement array size by 1 \*/

size--;

/\* Print array after deletion \*/

printf("\nElements of array after delete are : ");

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

{

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

}

}

return 0;

}

**Question 2**

Write the program for printing the array after rotating it k times towards left, where k would be taken as user input.

**Solution:**

#include <stdio.h>

// Function to left rotate an array by one position

void leftRotateByOne(int A[], int n)

{

    int last = A[n - 1];

    for (int i = n - 2; i >= 0; i--)

        A[i + 1] = A[i];

    A[0] = last;

}

// Function to left rotate an array by k positions

void leftRotate(int A[], int k, int n)

{

    for (int i = 0; i < k; i++)

        leftRotateByOne(A, n);

}

int main(void)

{

    int A[] = { 1, 2, 3, 4, 5, 6, 7 };

    int k = 3;

    int n = sizeof(A)/sizeof(A[0]);

    leftRotate(A, k, n);

    for (int i = 0; i < n; i++)

        printf("%d ", A[i]);

    return 0;

}