**Assignment 3**

**Question 1:**

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

#include <stdio.h>

void main()

{

int arr1[50],i,pos,n;

printf("\n\nDelete an element at desired position from an array :\n");

printf("---------------------------------------------------------\n");

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

scanf("%d", &n);

printf("Input %d elements in the array in ascending order:\n",n);

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

{

printf("element - %d : ",i);

scanf"%d",&arr1[i]);

}

printf("\nInput the position where to delete: ");

scanf("%d",&pos);

i=0;

while(i!=pos-1)

i++;

while(i<n){

arr1[i]=arr1[i+1];

i++;

}

n--;

printf("\nThe new list is : ");

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

{

printf(" %d",arr1[i]);

}

printf("\n\n");

}

**Question 2:**

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

#include <stdio.h>

int main()

{

int arr[] = {1, 2, 3, 4, 5};

int length = sizeof(arr)/sizeof(arr[0]);

int n = 3;

printf("Original array: \n");

for (int i = 0; i < length; i++)

{

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

}

for(int i = 0; i < n; i++){

int j, first;

first = arr[0];

for(j = 0; j < length-1; j++)

{

arr[j] = arr[j+1];

}

arr[j] = first;

}

printf("\n");

printf("Array after left rotation: \n");

for(int i = 0; i < length; i++){

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

}

return 0;

}