**Assignment 2**

**Question 1**

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

#include <stdio.h>

#include <conio.h>

print(int a[],int n)

{

int i;

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

{

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

}

}

int main()

{

int a[10000],i,n,index,new1;

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

scanf("%d", &n);

printf("Enter elements in array : ");

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

{

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

}

printf("Enter position should not greater than %d:",n);

scanf("%d",&index);

if(index<=n && index>0)

{

printf("\nbefore deletion :");

print(a,n);

for(i=index-1; i<n-1; i++)

{

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

}

printf("\nafter deletion :");

print(a,n-1);

}

else

printf("\ninvalid input");

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.**

#include <stdio.h>

#define SIZE 10 /\* Size of the array \*/

void printArray(int arr[]);

void rotateByOne(int arr[]);

int main()

{

int i, N;

int arr[SIZE];

printf("Enter 10 elements array: ");

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

{

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

}

printf("Enter number of times to left rotate: ");

scanf("%d", &N);

/\* Actual rotation \*/

N = N % SIZE;

/\* Print array before rotation \*/

printf("Array before rotationn");

printArray(arr);

/\* Rotate array n times \*/

for(i=1; i<=N; i++)

{

rotateByOne(arr);

}

/\* Print array after rotation \*/

printf("\n\nArray after rotation\n");

printArray(arr);

return 0;

}

void rotateByOne(int arr[])

{

int i, first;

/\* Store first element of array \*/

first = arr[0];

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

{

/\* Move each array element to its left \*/

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

}

/\* Copies the first element of array to last \*/

arr[SIZE-1] = first;

}

/\*\*

\* Print the given array

\*/

void printArray(int arr[])

{

int i;

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

{

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

}

}