DAY 2 Assignment

**Question 1**

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

#include<stdio.h>

void main()

{

int a[100],i,n,pos;

printf("\nEnter no of elements\n");

scanf("%d",&n);

printf("Enter the elements\n");

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

{

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

}

printf("Elements of array are\n");

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

{

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

}

printf("Enter the position from which the number has to be deleted\n");

scanf("%d",&pos);

if (n<pos){

printf("The number entered is greater than size of array.");

}

else{

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

{

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

}

n=n-1;

printf("\nOn Deletion, new array we get is\n");

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

{

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

}

}

}

**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()

{

//Initialize array

int arr[100] , n,k ;

printf("\nEnter no of elements\n");

scanf("%d",&n);

printf("Enter the elements\n");

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

{

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

}

//k determine the number of times an array should be rotated

printf("\nEnter value of k\n");

scanf("%d",&k);

// int k = 5;

printf("Elements of array are\n");

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

{

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

}

//Rotate the given array by k times toward left

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

int j, first;

//Stores the first element of the array

first = arr[0];

for(j = 0; j < n-1; j++){

//Shift element of array by one

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

}

//First element of array will be added to the end

arr[j] = first;

}

printf("\n");

//Displays resulting array after rotation

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

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

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

}

return 0;

}