Assignment Day 2 | 25th December 2020

Question 1

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

Sol:

```
#include <stdio.h>

int main()
{
  int array[100], position, c, n;

  printf("Enter number of elements in array\n");
  scanf("%d", &n);

  printf("Enter %d elements\n", n);

  for (c = 0; c < n; c++)
    scanf("%d", &array[c]);

  printf("Enter the location where you wish to delete element\n");
  scanf("%d", &position);

  if (position >= n+1)
    printf("Deletion not possible.\n");
  else
  {
    for (c = position - 1; c < n - 1; c++)
      array[c] = array[c+1];

    printf("Resultant array:\n");
```

```
    for (c = 0; c < n - 1; c++)
      printf("%d\n", array[c]);
  }

  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>
void leftRotatebyOne(int arr[], int n);
void leftRotate(int arr[], int d, int n)
{
    int i;
    for (i = 0; i < d; i++)
        leftRotatebyOne(arr, n);
}

void leftRotatebyOne(int arr[], int n)
{
    int temp = arr[0], i;
    for (i = 0; i < n - 1; i++)
        arr[i] = arr[i + 1];
```

```
    arr[i] = temp;
}
void printArray(int arr[], int n)
{
    int i;
    for (i = 0; i < n; i++)
        printf("%d ", arr[i]);
}
int main()
{
    int arr[] = { 1, 2, 3, 4, 5, 6, 7 };
    leftRotate(arr, 2, 7);
    printArray(arr, 7);
    return 0;
}
```