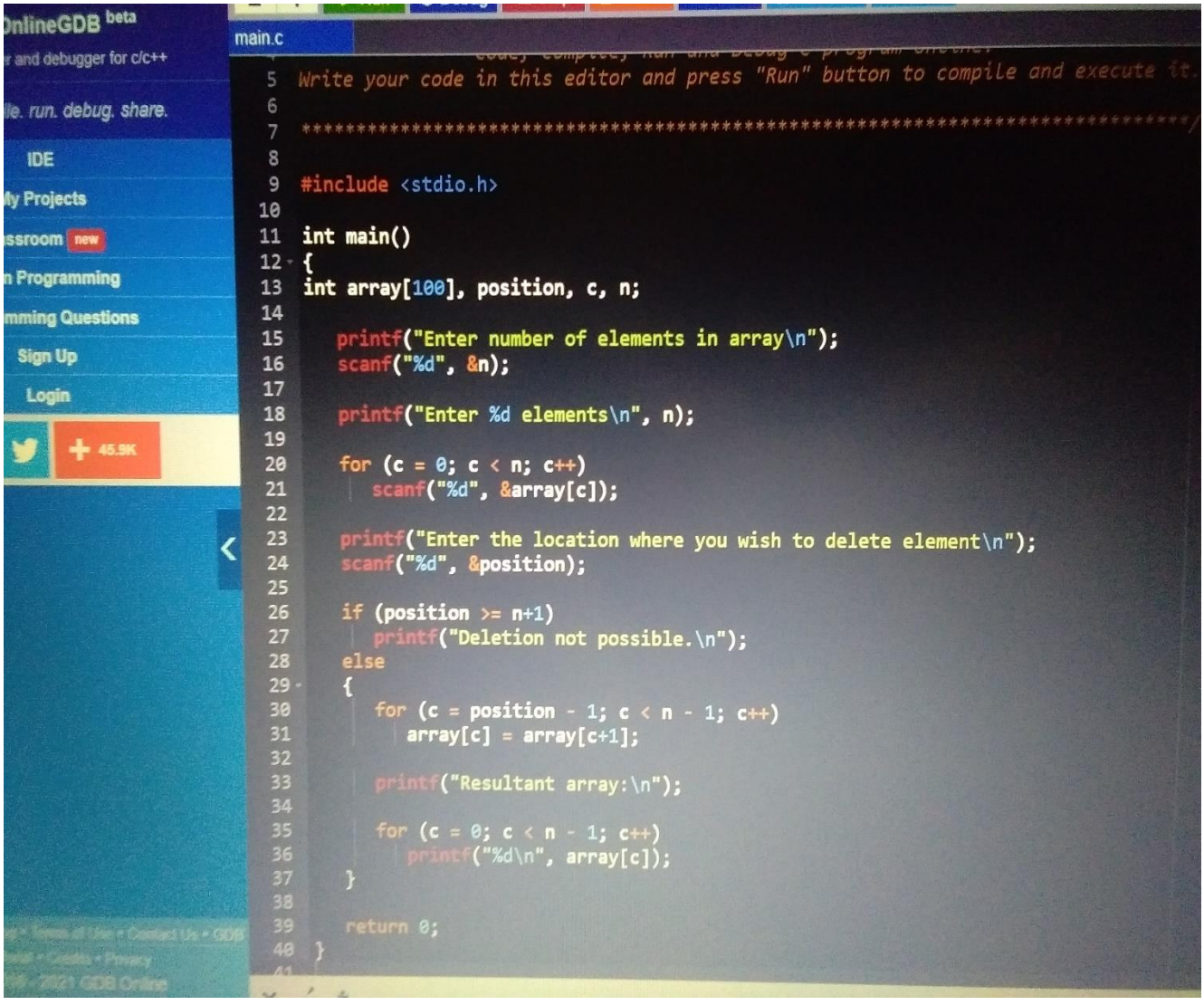
Data Structures and Algorithms

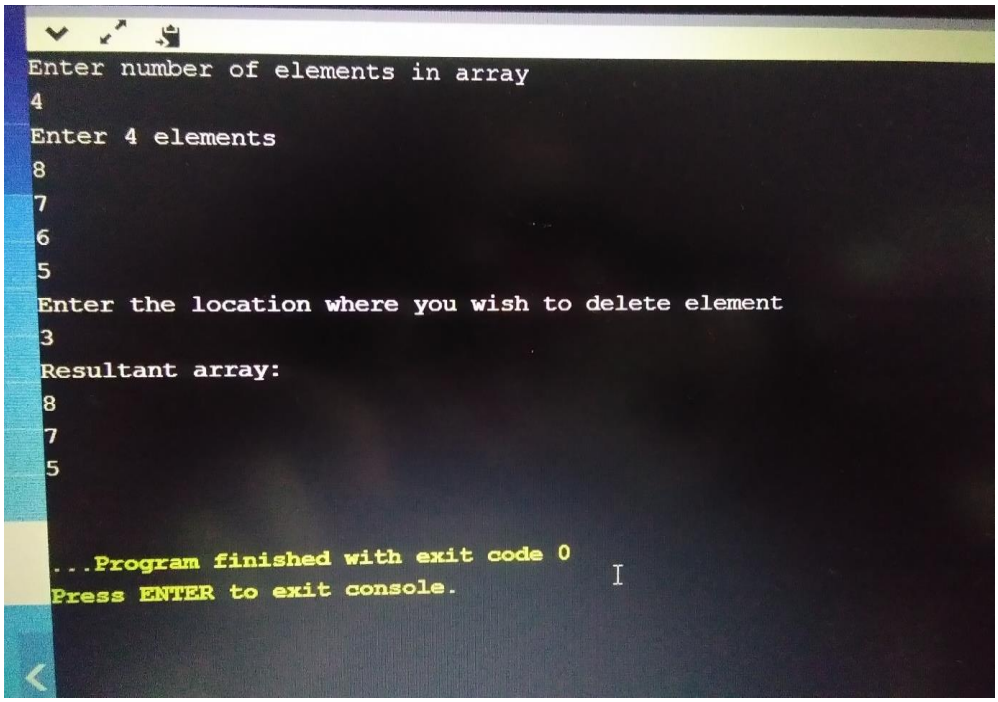
Assignment Day 2 25th December 2020

Question 1:

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

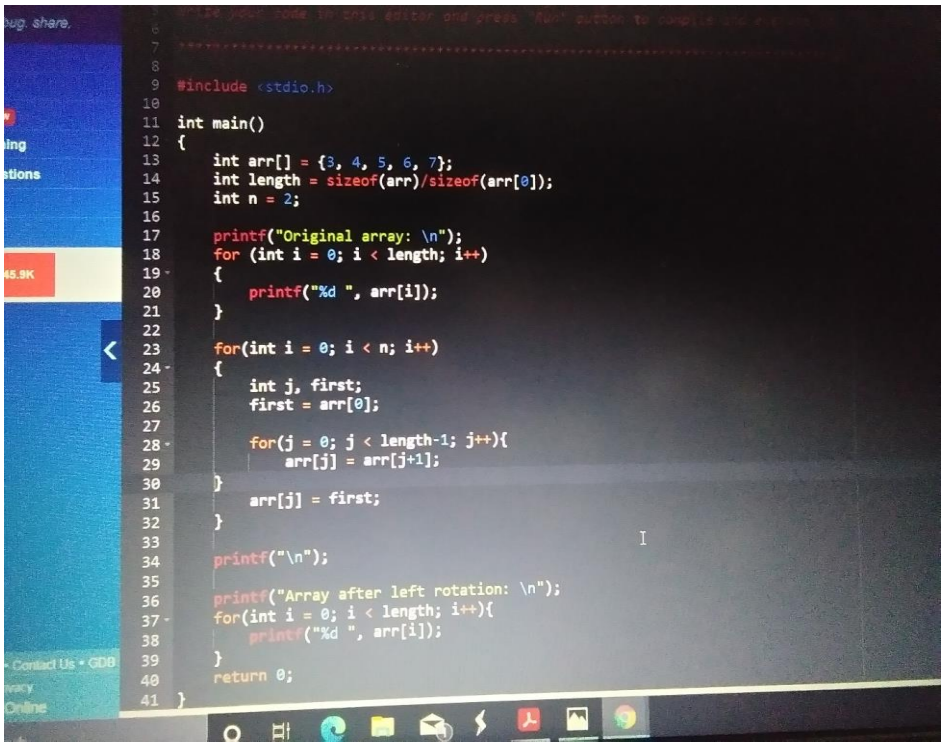


Output:



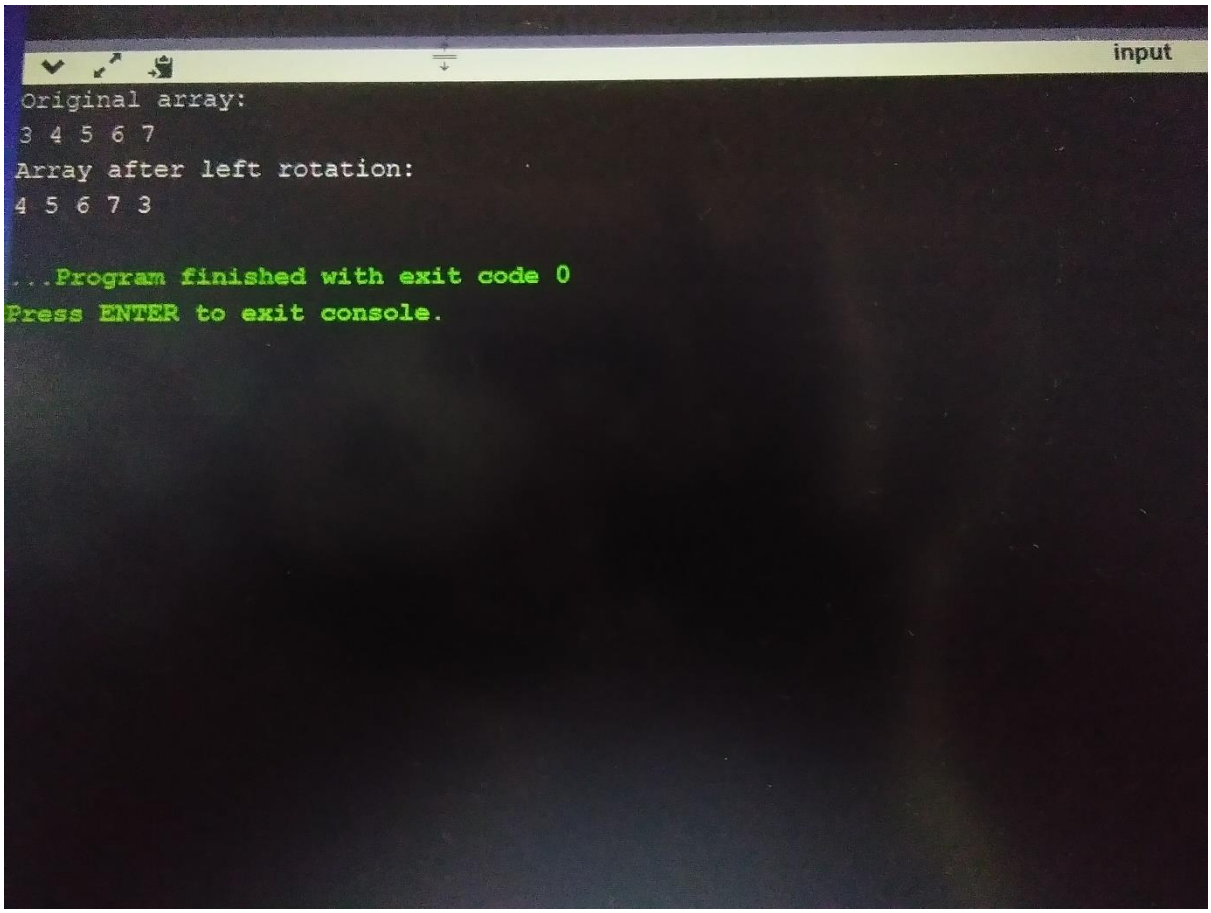
Question 2 :

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



```c
#include <stdio.h>

int main()
{
    int arr[] = {3, 4, 5, 6, 7};
    int length = sizeof(arr)/sizeof(arr[0]);
    int n = 2;

    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;
}
```

Output :


input
Original array:
3 4 5 6 7
Array after left rotation:
4 5 6 7 3
...Program finished with exit code 0
Press ENTER to exit console.