

## Assignment: 2

25/12/2020

- Q.1) Write the program for deletion of an element from the beginning (from any position).

```
→ #include <stdio.h>
int main()
{
    int array[100], position, c, n;
    printf("Enter no. 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 location where you wish delete element\n");
    scanf("%d", &position);
    if(position >= n)
        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;
}
```

→ O/P : Enter no. of elements in array : 5  
Enter 5 elements : 4 8  
6  
8  
10  
7

Enter the location where you wish to delete element

2

Resistant array is

4

8

10

7

Q.2) Write the program for printing 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)
```

```
{ int first = arr[0];
```

```
For (int i = 0; i < n - 1; i++)
```

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

```
arr[n - 1] = first;
```

```
}
```

```
Void KERROTATE(int arr[], int r, int n)
```

```
{
```

```
For (int i = 0; i < r; i++)
```

```
LEFTROTATEBYONE(arr, n);
```

```
int main(void)
```

```
{
```

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

```
int r = 2;
```

```
int n = sizeof(arr) / sizeof(arr[0]);
```

```
KERROTATE(arr, r, n);
```

```
For (int i = 0; i < n; i++)
```

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

```
return 0;
```

→ O/P:

3 4 5 1 2