Assignment-3

1→ WAP for deleting an element from the beginning and from any position.

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

Sol" 1 -

```
#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;
}
```

Ouspus

```
Enter number of elements in array
5
Enter 5 elements
8
9
1
2
3
Enter the location where you which to delete element
3
Resultant array is
8
9
2
3
```

2 →

PROGRAM →

```
// initialize array
int arr[] = {1,2,3,4,5};
// calculate length of array arr
int length = size of (arr) / size of (arr[0]);
// n determines the number of times an array should be rotated
int n = K;

// display original array
printf ("original array : \n");
for (int i=0 ; i<length ; i++) {
        printf ("%d", arr[i]);
}
// rotate the given array by n times toward left
   for (int i=0 ; i<n ; i++) {
        int j, first;
        // stores the first element of the array
      first = arr[0];
   for [j=0 ; j<length-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");
```

Output

5 4 3 2 1