## **ASSIGNMENT DAY -2**

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

```
Ans. #include <stdio.h>
   #define MAX_SIZE 100
  int main()
  int arr[MAX_SIZE];
  int i, size, pos;
  /* Input size and element in array */
   printf("Enter size of the array : ");
   scanf("%d", &size);
   printf("Enter elements in array : ");
  for(i=0; i<size; i++)
   scanf("%d", &arr[i]);
  }
  /* Input element position to delete */
   printf("Enter the element position to delete : ");
   scanf("%d", &pos);
  /* Invalid delete position */
   if(pos < 0 \mid | pos > size)
   {
    printf("Invalid position! Please enter position between 1 to %d",
   }
   else
    /* Copy next element value to current element */
    for(i=pos-1; i<size-1; i++)
      arr[i] = arr[i + 1];
    /* Decrement array size by 1 */
    size--;
    /* Print array after deletion */
    printf("\nElements of array after delete are : ");
    for(i=0; i<size; i++)
      printf("%d\t", arr[i]);
    }
```

```
return <mark>0</mark>;
}
```

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

```
Ans. #include <stdio.h>
 /* Function to left Rotate arr[] of size n by 1*/
void leftRotatebyOne(int arr[], int n);
/*Function to left rotate arr[] of size n by d*/
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;
}
/* utility function to print an array */
void printArray(int arr[], int n)
  int i;
  for (i = 0; i < n; i++)
    printf("%d ", arr[i]);
}
/* Driver program to test above functions */
int main()
  int arr[] = { 1, 2, 3, 4, 5, 6, 7 };
  leftRotate(arr, 2, 7);
  printArray(arr, 7);
  return 0;
}
```