

# Logic-LA-12

## Lab Assignment-12

# The logic we use to sort the array elements in ascending order

```
for (i = 0; i < n; ++i)
{
    for (j = i + 1; j < n; ++j)
    {
        if (num[i] > num[j])
        {
            a = num[i];
            num[i] = num[j];
            num[j] = a;
        }
    }
}
```

# Logic to Print all unique elements of an array.

```
for (int i = 0; i < size; i++) {  
    int count = 0; // Set count to 0  
    for (int j = 0; j < size; j++) {  
        if (arr[i] == arr[j]) {  
            count = count + 1; // Increment count by 1  
        }  
    }  
  
    // Check if the element appears only once  
    if (count == 1) {  
        printf("%d ", arr[i]); // Print the unique element  
    }  
}
```

# Logic to reverse the array elements.

```
int length = sizeof(arr)/sizeof(arr[0]);  
for (int i = length-1,j=0; i >= 0,j<=length-1; i--,j++)  
    {  
        b[j]=a[i]  
    }
```

# Logic to reverse the elements of an array without using another array.

```
int array[] = {1, 2, 3, 4, 5};  
int temp, length = 5;
```

```
int i=0;    //for pointing 1st element of the array  
int j=length-1; //for pointing last element of the array  
while(i<j){  
    //swap  
    temp = array[i];  
    array[i] = array[j];  
    array[j] = temp;  
  
    //update i and j  
    i++;  
    j--;  
}
```

