**Tutorial 05**

**1.**

Bubble Sort

arr = [74, 42, 55, 43, 21, 17, 80]

bubble\_sort(arr)

print("Sorted array using Bubble Sort:", arr)

Selection Sort

arr = [74, 42, 55, 43, 21, 17, 80]

selection\_sort(arr)

print("Sorted array using Selection Sort:", arr)

Insertion Sort

arr = [74, 42, 55, 43, 21, 17, 80]

insertion\_sort(arr)

print("Sorted array using Insertion Sort:", arr)

Merge Sort

arr = [74, 42, 55, 43, 21, 17, 80]

merge\_sort(arr)

print("Sorted array using Merge Sort:", arr)

**2.**

|  |  |
| --- | --- |
| **Bubble Sorting** | **Selection Sorting** |
| * Less Efficient | * More Efficient |
| * Slower | * Faster |
| * Use item Exchanging | * Use Item Selection |

**3.**

Databases

Address Book

File Systems

Contact Lists

Online Libraries

Music / Video Playlists

Online Forums and Social Media

Task Management

**4.**