



University of Engineering and Management (UEM), Kolkata

Department of Computer Applications

Stream: MCA

Session: 2023-2025

**Subject Name: Advanced Data Structures with C
Laboratory**

Subject Code: MCACC294

Class taken by:

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Topic: To Implement Sorting Algorithm

Data Set- : 27,15,39,21,28,70

1. Write a C program to implement the concept of Bubble sort on the above data set. Print the data set after every iteration.
2. Write a C program to implement the concept of Selection sort on the above data set. Print the data set after every iteration.
3. Write a C program to implement the concept of Insertion sort on the above data set. Print the data set after every iteration.
4. Write a C program to implement the concept of Quick sort on the above data set. Print the data set after every iteration.
5. Write a C program to implement the concept of Merge sort on the above data set. Print the data set after every iteration.
6. Write a C program to show that Quick sort is better than Bubble sort.
7. Write a C program to show that merge sort is more effective than quick sort.