AIM: SORTING ALGORITHMS, BY PERFORMING BUBBLE SORT, INSERTION SORT, SELECTION SORT, MERGE SORT AND QUICK SORT.

EXPERIMENTS:

1. BUBBLE SORT: THROUGHOUT THE LIST REPEATEDLY COMPARES ADJACENT ELEMENTS AND SWAPS THEM IF THEY ARE IN THE WRONG ORDER.
2. INSERTION SORT: IN THIS SORTING MECHANISM, SORTED ARRAY IS BUILT HAVING ONE ITEM AT A TIME.
3. SELECTION SORT: THIS IS AN IN-PLACE COMPARISON SORTING ALGORITHM.
4. MERGE SORT: THIS IS A DIVIDE AND CONQUER ALGORITHM, WHICH IS AN EFFICENT METHOD.
5. QUICK SORT: THIS IS THE FASTEST WAY OF SORTING,THIS IS ALSO BASED ON DIVIDE AND CONQUER METHOD.

OUTPUT:

CONCLUSION: THUS,ALL THE SORTED VERIFIED.