

Lab Exercise 2 Part 2 (MERGE SORT/QUICK SORT)

1. Given array Z with 8 integer values.

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| [0] | [1] | [2] | [3] | [4] | [5] | [6] | [7] |
| 77 | 13 | 85 | 23 | 8 | 15 | 21 | 37 |

Draw a complete diagram that show how Merge Sort is performed on the array. Make sure in your diagram each function has its name, function parameter value and step number for function call.

2. Given an array of char named theArr with 8 elements.
 - a. Draw the diagram that shows the detail process of sorting the data in ascending order using Merge Sort technique.

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| [0] | [1] | [2] | [3] | [4] | [5] | [6] | [7] |
| M | J | B | K | C | F | T | P |

3. Given an array theArr2 [32 11 81 43 71 22],
 - a. Sort array theArr2 into ascending order using Quick sort technique. Draw a complete diagram that show how Quick Sort is performed in the array. Used the first element of the array as a pivot value.