

Name: Prasiddha Regmi

Student ID: np03cs4s210178

1. What are the most challenging aspect of the coursework task?

=> I have got many challenges in this task. At first, I was confused about taking the array from the user to add elements in the ArrayList. Also, I have got problems displaying the sorted Array. I was not clear on the concept of recursive so, I was confused to recursively calls the merge and sort method to Merge Sort. In this program, the most challenging part is that the Program should divide the given elements into two parts, again need to do the same process until the element became individual. After that Program should sort the element step by step and give the overall element by sorting. I have also faced problems when the user input odd numbers of an element to divide the elements into two parts.

2. How did you go about completing the task?

=> I completing this task itself but a little bit from the internet. At first, I make the program enter the number of elements and enter the n numbers to sorting array by using looping condition until the n(total number of elements) times. Then, these numbers are added to the list. After that, the program divides the given element into two parts until the elements became separate. When the user input odd numbers of elements then there should add 1 in numbers of elements to the only divide. Then, the program divides the elements into two parts where On the right side there should be 1 more number and this process is run when the user inputs an odd number. After that, the program sorts the elements by comparing each element and insert by ascending order until the whole element combine. At last, I make the program to display Sorted Array.

3. What have you learned over the course of completing this coursework task?

=> I have learned many syntaxes, functions, and Looping Conditions, etc. Before doing this task I was confused about the concept of recursive but now I am clear on this topic. I also learned to add elements in the list from the user input. Totally cleared in the concept of Object-Oriented Programming. I have also clear in the concept of Array and Array List. I also learned to break down the elements. Mainly I learned to sort the n number of the array. Also, I have got some knowledge about exceptions cases in java.

