**REPORT**

MERGE SORT,INSERTION SORT

So we performed several experiment on the program we wrote to see which algorithm performs better in giving conditions, first The program asks the user **to input the size** of the array from 1 to 100000 and then that’s when we create the array we random values from 0 to 100 and then the program sort them with the different algorithms

(**Merge sort and insert sort**. ) respectively. further the programs displays the respective time taken by each algorithm to perform the sort.

We notice that the size of O(f(n))where f(n ) correspond complex insertion sort and merge sort is respected for each of the simulations with a relatively good accuracy.

In most cases the merge sort is doing better especially when the outputs are not very complicated and when tending to be a lot it…









