TP2 TEST - ALGORITHM - SORT ALGORITHM

Age [6 9 8 2 45 63 8 1] - Since in our list we have 3 already sorted values, we going to look at index 8 which has no need to adjust as 8 is less than both children 63 and 81. Hearify from index I (value 9), there' no need to adjust as 9 is less than both children 45 and 63. Then we move to Heapity from index o (value 6), we swap 6 with the larger child of to maintain the heap property . I lastval Array -[6 9 8 2 45 63 817 - Step 2: Keaping index ((value 6) , no swap 6 with the larger child 45 to maintain the heap property. After second iteration our age iteration [9,45,8,2,6,63,81]. - Step 3 -: Continue to reapity index & Craine 6 d, so need to adjust as it is a leaf mode. · After third iteration - [9,45,8,2,6,63,8/] - Step 4. Extract elements to Sort, snap root 9 with last element Heapity remaining array [81,45,8,2,6,63] - After Extraction & Mensifying - I - Continue extraction and heapity until Sorted, snap root 81 ml 63. Heapity remaining army 63 45 8 2 6 71 9) - Fonal Sorted Armany [2,6,8,9,45,863,81]