Assignment -4

1. Construct 2-3 tree for the following data

12,45,23,45,67,123,56,45,23,67,98.23,56,34,11

1. Find the total number of comparisons in the construction of heap for the complete tree with height 5. Show the number of comparisons in each node.
2. Apply Boyer-Moore pattern search algorithm to search the pattern MANIMARAN

in the following text and count the total number of comparisons.

RAJARAMAN\_IS\_BETTER\_THAN\_MANIMARAN

1. Construct closed hash table for the following texts

MIT NITK ABCD DF XYZ JJJJTJE with entry in hash table of size 6 and search for JJJJTTJE.

1. Use Sort by Comparision to sort the following with step by step method

21 45 48 64 21 45 69 64 21 15