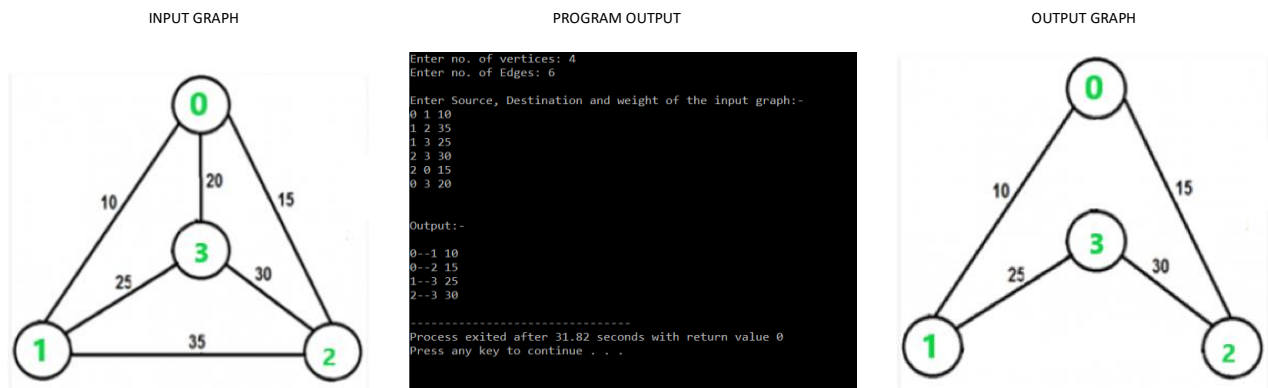


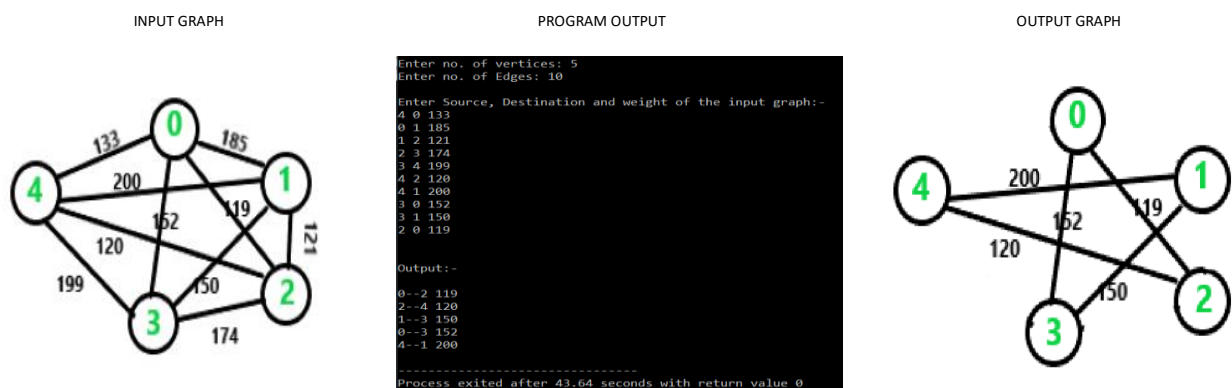
SAMPLE OUTPUT AND TIME COMPLEXITY

CHEAPEST LINK ALGORITHM

SAMPLE OUTPUT 1:



SAMPLE OUTPUT 2:

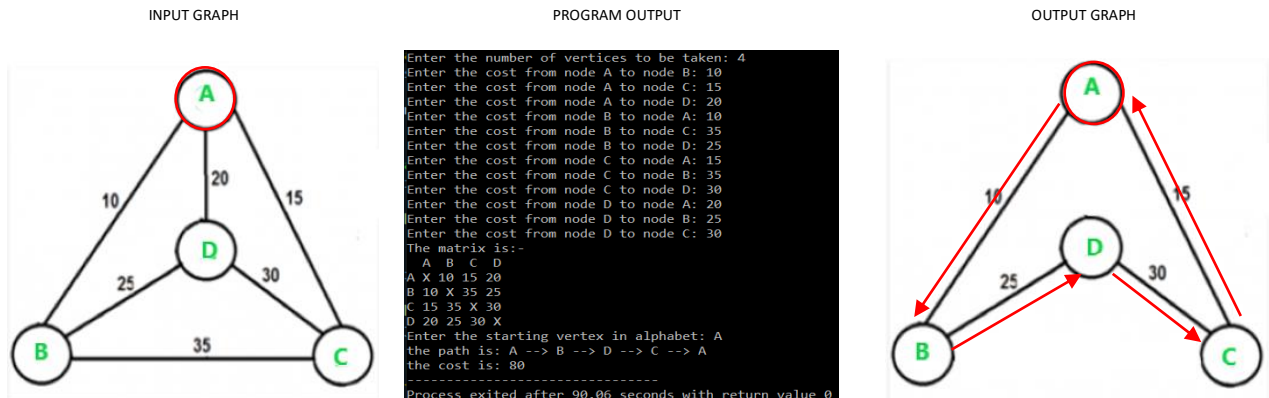


Time Complexity:

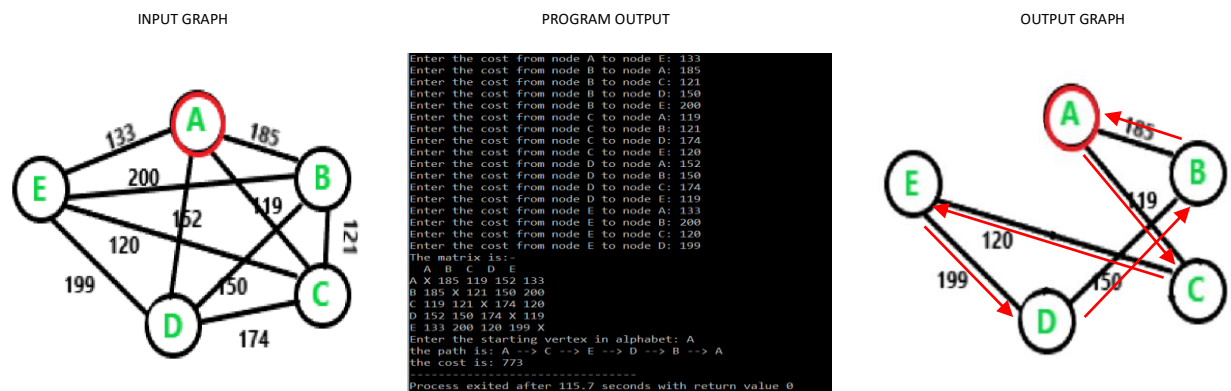
To traverse through all edges, it takes $O(E)$ time. For union find algorithm to detect cycle, it takes around $O(\log n)$ time. Overall it takes, $O(E)+O(\log n)$. So we can say that Overall time complexity is $O(E)$.

NEAREST NEIGHBOUR ALGORITHM

SAMPLE OUTPUT 1:



SAMPLE OUTPUT 2:



Time Complexity:

To Create and work on adjacency matrix, it takes around $O(n^2)$. And for all other Operations, it takes $O(n)$ time.
So, Overall, this algorithm takes $O(n^2)$.