

Assignment – 10

1. Prim's Algorithm

- Given a connected **undirected** weighted graph G . Obtain the MST for G based on Prim's algorithm –
 - **without** using the heap data structure.
 - using the heap data structure.

2. Kruskal's Algorithm

- Given a connected **undirected** weighted graph G . Obtain the MST for G based on Kruskal's algorithm –
 - Use array to implement disjoint sets
 - Use linked-list to implement disjoint sets
 - Use whatever you like to implement disjoint sets so that the whole process takes $\mathcal{O}(m \log m)$ time where m is the number of edges in G