

## CHAPTER 6

### CONCLUSION

Based on the testing that have been carried out, it can be seen that both Reverse Delete and Boruvka algorithm can formed MST in finding the shortest distance in building toll roads with the accuracy rate obtained from sample 4, with a percentage of 63%, so this results still cannot be used as the main reference because there are several things that need to be considered again such as whether the land to be used is available, whether the terrain supports it, and whether the location is strategic. Both the Reverse Delete algorithm and Boruvka algorithm are equally effective in finding MST, but here the Boruvka algorithm can find MST faster than the Reverse Delete algorithm, this is because the Boruvka algorithm perform MST search by finding smallest weight/length edge from each node, so the Boruvka algorithm can work faster than Reverse Delete in a graph with more edges than the number of nodes, Which of the three samples has a number of edges that is much more than the number of nodes.

In further research, it is hoped that other MST algorithms can be used so that they can be compared so it can be use as other learning media, and also the visualization results of the paths chosen by the algorithm can be directly from the program, not manually.