

## CHAPTER 6

### CONCLUSION

From the experiment that has been conducted, a conclusion can be taken, from the result it has been proven that genetic algorithm is able to optimize the waste transportation route, and compared with another algorithm which is a Brute Force algorithm, the genetic algorithm has proven to be superior. That being said, there is still a few downside to genetic algorithm, which are; genetic algorithm needs a longer time when computing more data, for example 160 data with 400 populations takes about 20-30 minutes to compute, genetic algorithm also needs a specific population number to produce the most optimum route, and since there is no pattern in the result, a lot of time is consumed to do trial and error.

For the next research, it might be better to try out other optimization algorithm, or create a hybrid genetic algorithm that can produce an even better solution with lower time consumption.

