

CHAPTER VI

CONCLUSION AND FURTHER RESEARCH

6.1 Conclusion

This application implement Genetic Algorithm as a main algorithm. Genetic algorithm is one of optimization algorithm. It help user to find the best solution of a problem. In this case polynomial equation. From the testing above the conclusion is:

1. This application has implemented genetic algorithm in order to find root of polynomial equation successfully.
2. The root of polynomial equation has been found successfully with high-level accuracy and user can input the level of accuracy.
3. This project has tested completion success rate from genetic algorithm in order to find root of polynomial equation.

From the testing above, The system is influenced by precision number and the complexities of the equation. The biggest influence is precision number. The most optimal form for this project when the precision number is 0.001. The project can search all of equation and have high accuracy for finding the root of polynomial equation.

6.2 Further Research

This application still simple and need a lot of further development. The application sometimes takes very long time to search root with smaller precise number. Smaller precise number determine the time that application need to process or find the root of some equation. For the further, this application have to develop or combined with some algorithm to find the best solution both result and efficiency.