

## CHAPTER V

### CLOSING

#### 5.1 Conclusion

Based on the data obtained research results and data analysis that have been done, it can be concluded as follows:

1. The learning outcomes of students who are given treatment using guided inquiry learning model assisted by PhET increased visible from the pre – test and post – test result from 57.85 to 87.22. And the N – Gain score for the experiment class is 0.6987 which is it means in the high categories.
2. The learning outcomes of students who are given treatment using conventional learning also increased form the pre – test to post – test result from 59.72 to 80.97. But there is a significance difference from experiment class with control class in N – Gain score. The N – Gain score on control class is 0.527586 and it is include in the middle categories.
3. There is a significane influence of the guided inquiry learning model assisted by PhET on student’s learning outcomes. It can be shown from the results of two-tailed t test and student’s score that increase according to the analysis data that have been done.

#### 5.2 Suggestion

The application of the Guided Inquiry Learning Model assisted by PhET on Mechanical Wave topic in XI Grade SMA Negeri 2 Medan has an influence that can be improve students physics learning outcomes. Based on the discussions that has been submitted the researcher has the following sugesstions :

1. Teachers who want to apply the same learning process are expected to carry out simulation related to the syntax of the learning model first.
2. For future researchers who want to research similar things, it is necessary to consider more effective and efficient use of time so that the results obtained are better.
3. The availability of supporting learning facilities such as digital devices, internet access and also projectors greatly influences the implementation of learning. So, it is necessary to ensure that all students have a digital devices and internet access before the learning process and ensure that schools are able to provide projector for smooth learning.