

## **CHAPTER 6**

### **CONCLUSION**

#### **6.1 Predictions Result**

- Based on table 5.6 humidity, 5.7 temperature, 5.8 soil predictions for room 1 that does not use air-conditioning have a correct prediction 97,07% for humidity, 97,82% for temperature, 98,19% for soil humidity. Of the average percentage taken from room 1, the predictions made have almost accurate predictions accuracy.
- Based on table 5.9 compounds, 5.10 temperature, 5.11 soil predictions for room 2 where air conditioning has a correct prediction 62,72% for humidity, 88,42% for temperature, 98,91% for soil humidity. For the average percentage obtained from room 2, the predictions made have less accurate predictions, especially on predictions, the temperature predictions have fairly accurate predictions, and for the predictive threshold for soil streams to be almost accurate.

#### **6.2 Predictions Analysis**

- Linear regression, or regression, prediction activities primarily lie in the data used to make predictions. If the data used to predict has a significant change in data then the accuracy of the predictions will be more inaccurate. However if the data used for predictive activities has a change in data that tends to miss the accuracy of predictions using linear regression methods would be more accurate.

#### **6.3 Conclusions**

- The conclusion of the study is that linear regression methods can be implemented on predictive activities for moisture levels in the soil because they have predictions that approach data obtained, but to predict that air

humidity and room temperature still have low accuracy because air humidity and room temperature have significant and irregular data changes that are obtained.

- The effect of fluctuations and temperatures on the moisture content of the soils in rooms that are air-conditioned and those that do not use air conditioning are not too large have a range that ranges a little from 10% or more.
- The result of this study is that linear regression methods are better used to predict data that have regularity in the data used to predict, especially soil humidity levels because they have an insignificant water content reduction rate inside the soil.

#### **6.4 Further Research**

- The suggestion for further research is that research done on both rooms should be done separately using two microcontrollers to facilitate the research process and the longer use of cables mainly for jumper cables and LAN cables to cover a wider area.