

CHAPTER 6

CONCLUSION

The following conclusions can be drawn through a health monitoring system with a fuzzy algorithm:

1. MLX90614 sensor (temperature), pulse sensor, HC-SR04 (distance), 5volt pump works well and runs according to its function.
2. According to the results of testing that has been carried out, the monitoring system can determine whether the respondent is in a healthy, unhealthy or sick condition using a fuzzy algorithm. LCD displays the results of the respondent's condition output well.
3. The fuzzy algorithm in this project goes through 3 stages to produce output. The first stage is fuzzyfication, determining limits in temperature and pulse membership which are divided into 3 categories, namely cold, normal, hot for temperature membership and slow, medium, fast for pulse membership. The second stage is to enter the fuzzyfication value in the predetermined rule. The third stage of defuzzification, the output value in the form of a fuzzy number will be returned to a real number followed by the membership output.

Added a database and wifi module to store respondent data and send data in real time, as suggestions for further development.