

# CONCLUSION AND APPLICATION OF THE PROJECT

## CONCLUSION

This project can be used in both the home and Industry. It helps in saving the energy and electricity. To watch the environments that is not comfortable, or possible, for humans to monitor, especially for extended periods of time. Prevents waste of energy when it's not hot enough for a fan to be needed. To assist people who are disabled to adjust the fan speed automatically. In future case we can monitor more parameters like humidity, light and at the same time control them and also can send this data to a remote location using mobile or internet. Using this technology we can able to draw graphs of variations in these parameters using computer. And the temperature exceeds the limit; a call will be dialed to the respective given number by an automatic Dialer system. Moreover the fan speed will increase automatically if the room temperature is increased as conclusion the system performs very well for any temperature changes and can be classified as automatic control.

## APPLICATION

Temperature based fan speed controller is useful for cooling the processor in the laptops and personal computers "more efficiently". Generally fan in laptop comes with only two or more three possible speeds. So it results in more power consumption. The fan designed in this project, has different values of speed according to temperature change. This can be also used in small scale industries for cooling the electrical/mechanical equipment. It is very compact, using few components and can be implemented for several applications including air-conditioners, water heaters, snow-meters, ovens, heat-exchangers, mixers, furnaces, incubators, thermal baths and veterinary operating tables. The whole circuit except motor and fan can be manufactured, and it can be used for temperature speed control.

Normally we use the regulator to change the speed of the fan. Here the room temperature changes the speed, varies so that according to the temperature the fan rotates. The fan designed in this project, has the more scope to use in the middle East countries. This product is more suitable for the hot regions.