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| PES University Bangalore -85  Department of Computer Science and Engineering | |
| Subject Title:- Microprocessor and Computer Architecture Code:-UE17CS256 | |
| **HUMIDITY AND TEMPERATURE CONTROLLER** | |
| **Abstract:** Humidity is the percentage of water vapor contained in an air. As  Humidity and temperature increase inside the house after some temperature and humidity values, a fan will be triggered and a window in the house will be opened to let the fresh air inside. When the temperature and humidity decrease beyond a point the windows and the fan is switched off. |  |
| **Project Description:** The Sensors used in this project include humidity sensor (DHT11), Buzzer, LCD, DC motor and Servo Motor. DHT 11 sensors are used to record humidity and temperature readings. Servo Motor is used to open the window and Dc motor is used to run the fan. Buzzer is to notify opening of window. LCD displays the current temperature and humidity given by DHT11 sensor.  When the humidity value goes above 50% or temperature value goes above 40℃, the fan switches on and windows open. When any one of the values goes below the threshold(50%,40℃) the windows close and fan is turned off. |
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