DHT

**1) DHT ():**

- Return Type: Constructor.

-Parameters: Data Pin (int).

-Notes: The default pin is pin 0,the constructor gives the DHT object constructed a unique ID.

**2) Read\_data ():**

- Return Type: void.

-Parameters: void.

-Notes: Should be called before using any “get\_data” function.

**3) get\_id ():**

- Return Type: int.

-Parameters: void.

-Notes: returns the ID of current DHT object (Sensor).

**4) set\_temperature ():**

- Return Type: void.

-Parameters: int.

-Notes: -

**5) set\_RH ():**

- Return Type: void.

-Parameters: int.

-Notes-

**6) set\_data\_pin ():**

- Return Type: void.

-Parameters: int.

-Notes: sets the data pin of current DHT object (Sensor).

**7) get\_data\_pin ():**

- Return Type: int.

-Parameters: void.

-Notes: returns the data pin of current DHT object (Sensor).

**8) get\_temperature ():**

- Return Type: float.

-Parameters: void.

-Notes: Should call “Read\_data()” before calling it.

**9) get\_RH ():**

- Return Type: float.

-Parameters: void.

-Notes: Should call “Read\_data()” before calling it.

**10) temperature\_cmp ():**

- Return Type: int.

-Parameters: (DHT object) and error percentage (int).

-Notes: Compares the temperature of the 2-DHTs relative to their average readings with a given error percentage (default is 10%).

**11)** **RH\_cmp ():**

- Return Type: int.

-Parameters: (DHT object) and error percentage (int).

-Notes: Compares the RH of the 2-DHTs relative to their average readings with a given error percentage (default is 10%).

**12) operator == ():**

- Return Type: int.

-Parameters: (DHT object).

-Notes: Checks whether the 2-DHTs read the same data values or not with an error percentage 10%.

**13) operator != ():**

- Return Type: int.

-Parameters: (DHT object).

-Notes: Checks whether the 2-DHTs read the same data values or not with an error percentage 10%.

**14)** **operator = ():**

- Return Type: DHT.

-Parameters: (DHT object).

-Notes: Sets the temperature and RH values of the RHS to the LHS.

**15)** **operator + ():**

- Return Type: DHT.

-Parameters: (DHT object).

-Notes: returns a new DHT which has the average values of temperature and RH of the 2-passed DHTs.

**16) Serial\_print\_data():**

- Return Type: Void.

-Parameters: A (bool) is passed, if true then read data before printing else, print the last data read.

-Notes: The initial value of the bool is true.

**17) Serial\_print\_data\_LabView():**

- Return Type: Void.

-Parameters: A (bool) is passed, if true then read data before printing else, print the last data read.

-Notes: Prints the data in the form the lab view accepts , the initial value of the bool is true.