Code to get RSSI Values

Thursday, July 30, 2020 1:13 AM

```
//assumption is made that devices are connected and
//wired properly
//this is a pseudocode but I will mostly the real functions and their real input

//add this to setup
void setup(){
     Serial.begin(38400);
}

int getrssi(string master){

     int rssi_received = 0;
     vector<int> rssi_val;
     while(rssi_received <15){
          int check1 = Serial.write("AT+INQM=1,9,48"); //use the check 1 variable as error detection.
                                                      //not needed right now
          int check2 = Serial.write("AT+INQ");

          char[50] buffer;

          int check3 = Serial.readBytesUntil('\n', buffer, 50);

          //at this point buffer should be something like : "+INQ:1234:56:0,1F1F,FFC0"

          string test (buffer); //cast the array as a string

          string sub (test, 5, 9); //should be equal to "1234:56:0"

          if(sub == master){
               string sub2 (test, 20, 4); //should be equal to "FFC0"

               int rssi = sub2.convertHexInt() //not a real function have to research or do manually

               rssi_val.pushback(rssi);
               rssi_received++;
          }
          else{continue;}
     }

     int sum =0;
     for (auto& n : rssi_val)
         sum += n;
     int avg = sum/(rssi_val.size());

     int mode = mode(rssi_val); //not a real function. have to research or do manually.

     if(abs(mode-avg)/float(mode) < 0.1){
          return mode;
     }
     else{
          return -1;
     }




}
```