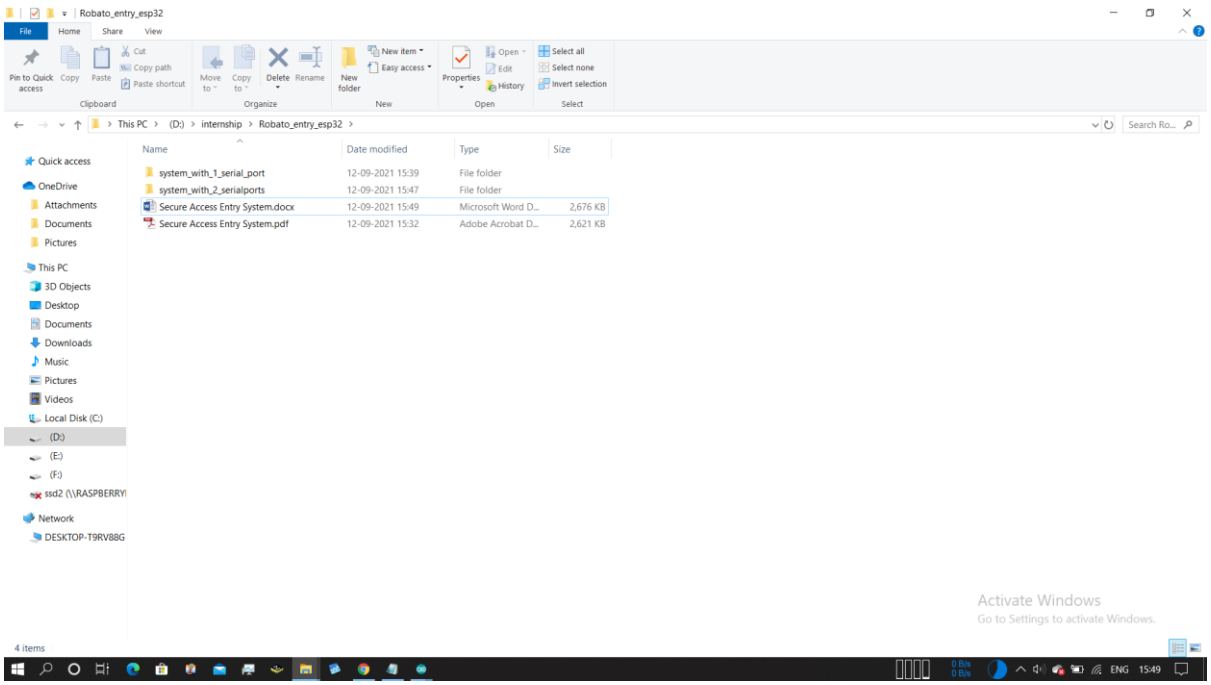
Stijo joseph
Robato Systems

Secure Access Entry System



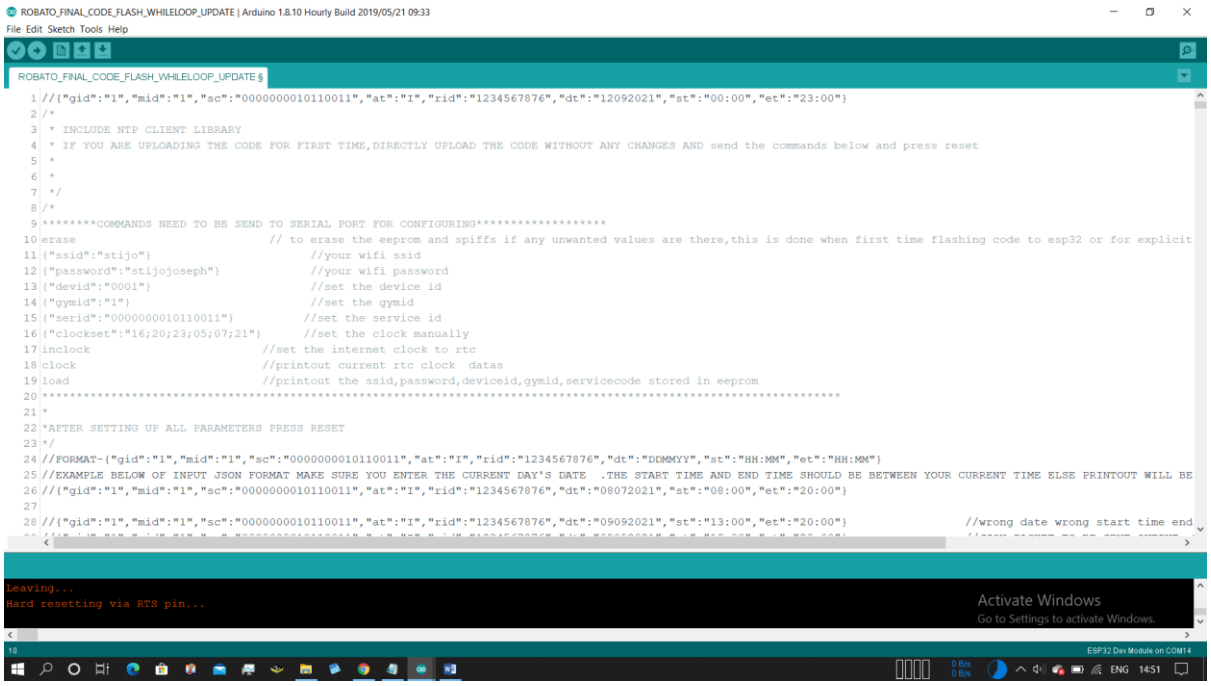
system_with_1_serial_port folder files

These files take input parameters and also shows debug outputs on same serial port

system_with_2_serial_ports_folder files

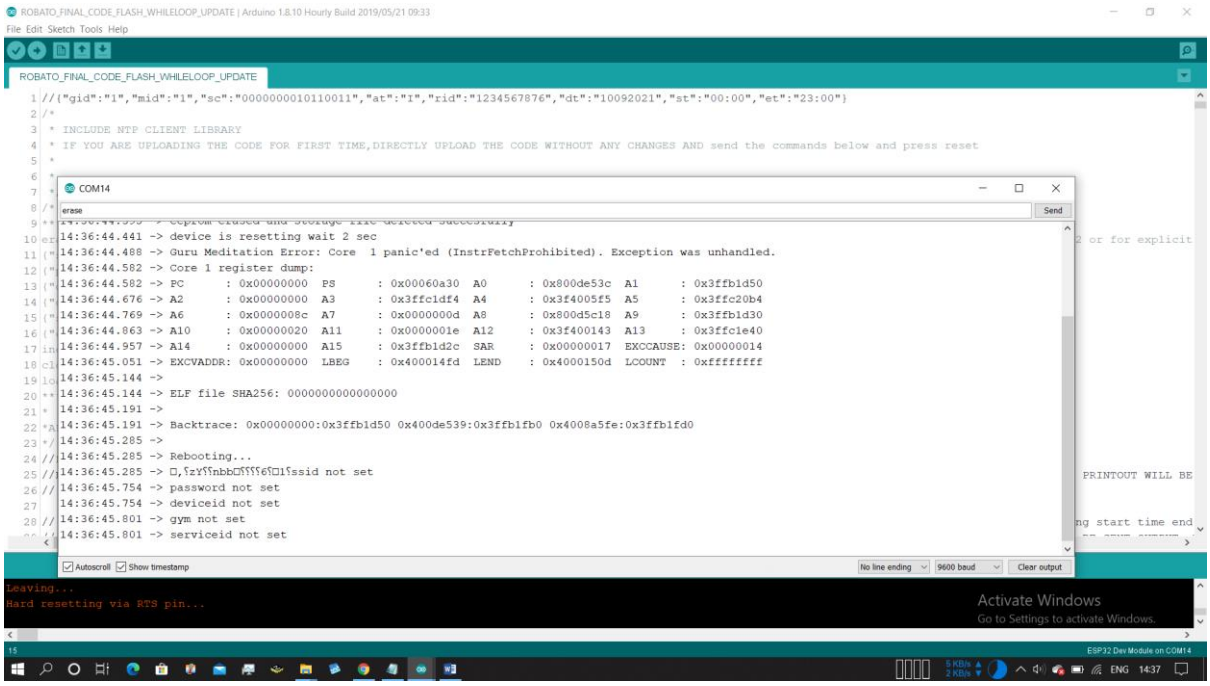
Takes input from Serial port2 and shows output on serial port2

- Upload ESP32_ENTRY_WITHOUT_BUSY_STATE.ino code to the esp32 and open the serial monitor



- Copy the command from line 10

“erase” and enter into the serial monitor



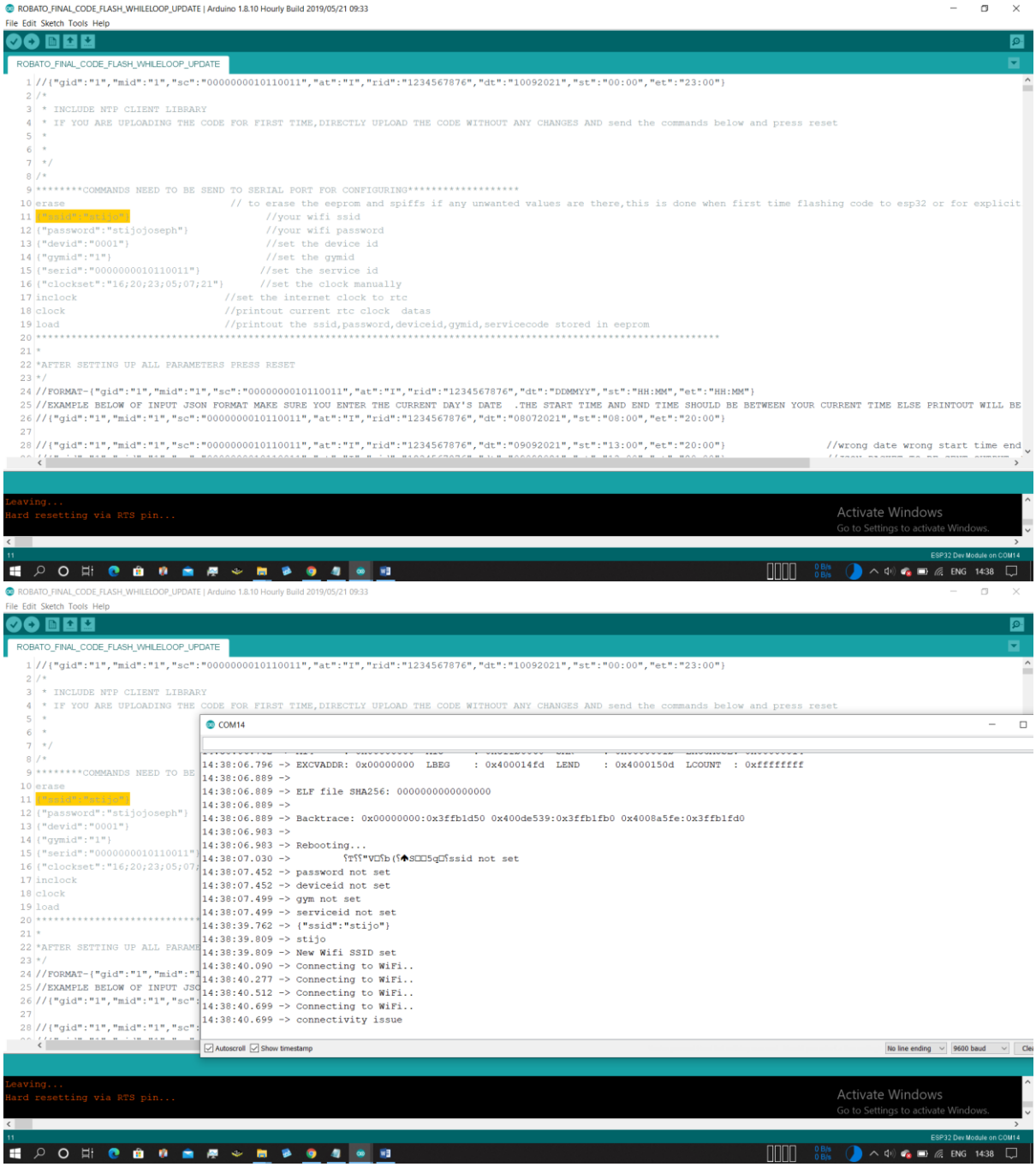
- All datas will get erased and the system restarts

Next copy the line 11

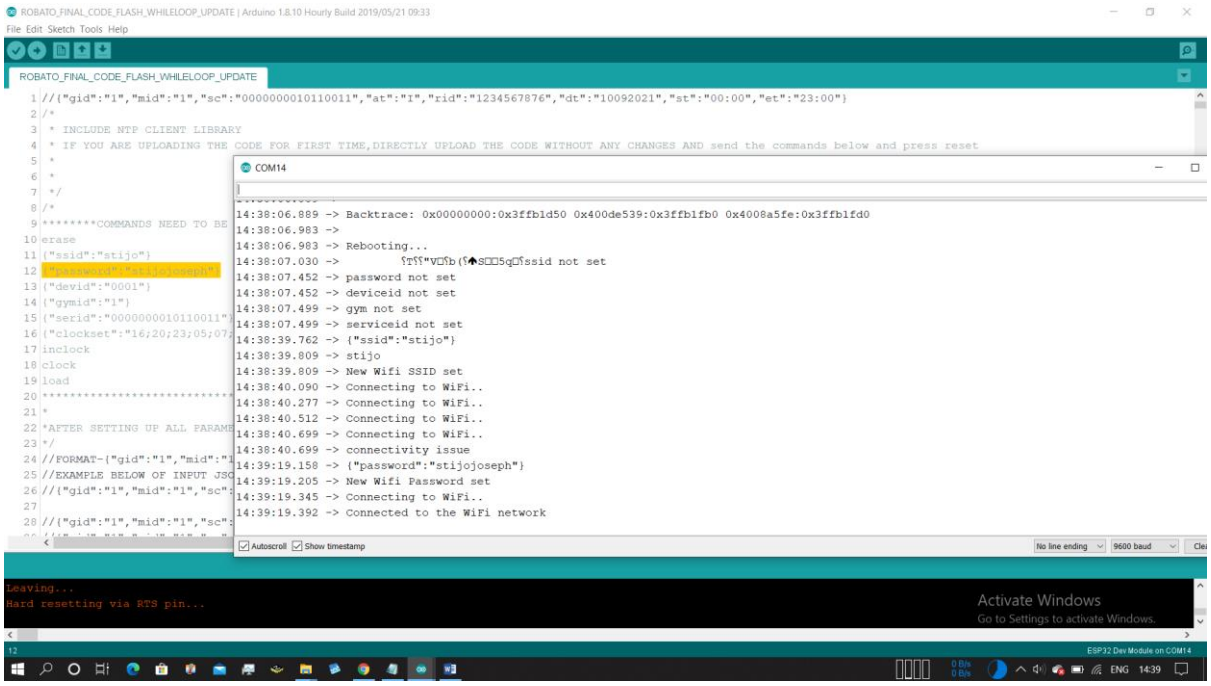
{"ssid":"stijo"}

{"ssid":"yourSSID"}

- Replace it with your ssid and enter into serial monitor

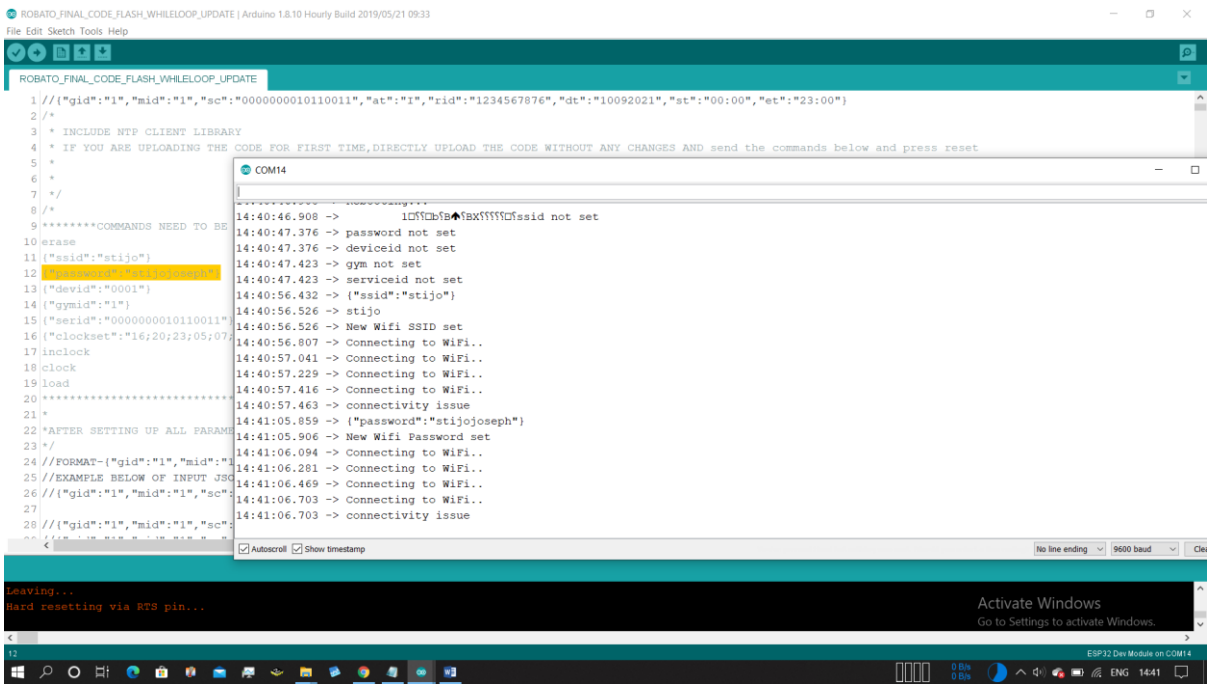


- Output will be new Wifi ssid set ,next silimlary copy 12th line and set password



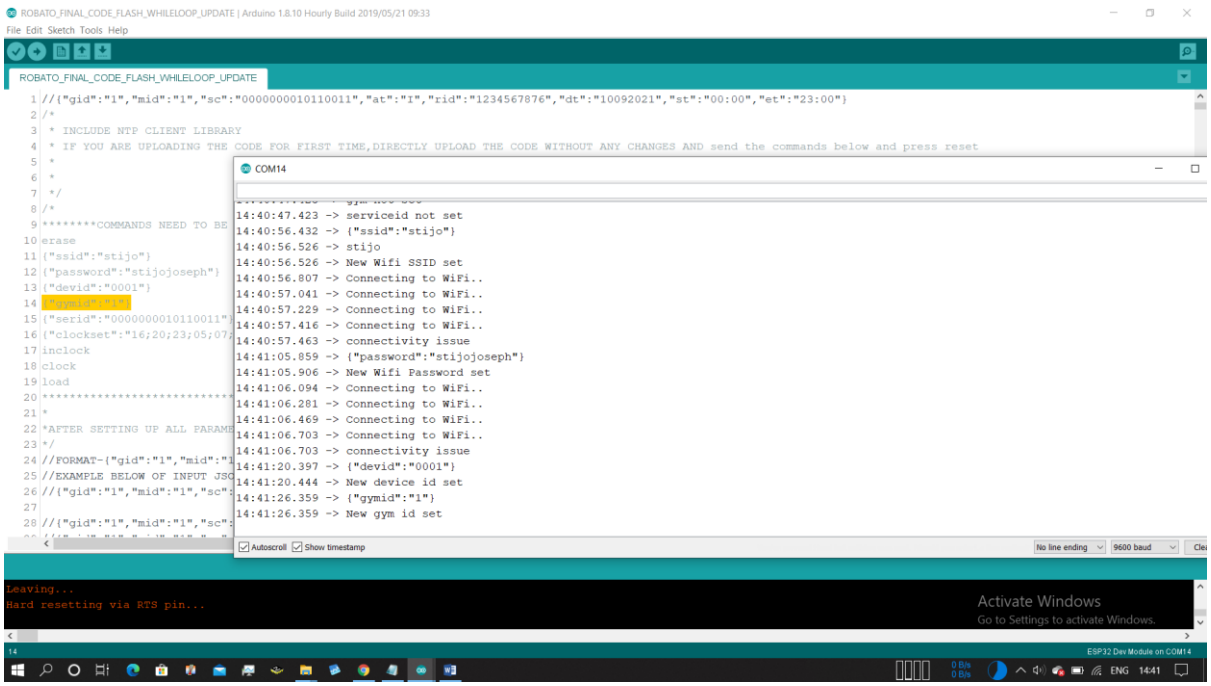
- It will show connecting wifi,then Connected to wifi network
- Make sure you put the correct ssid and password

Possible error situtaion



- If you get any connectivity issue even after entering correct ssid and password, that will be solved on next a device reset

- Now set the remaining parameters from line 13



Similary set gymid,deviceid

{"devid":"0001"} //set the device id

{"gymid":"1"} //set the gymid

{"serid":"0000000010110011"} //set the service id

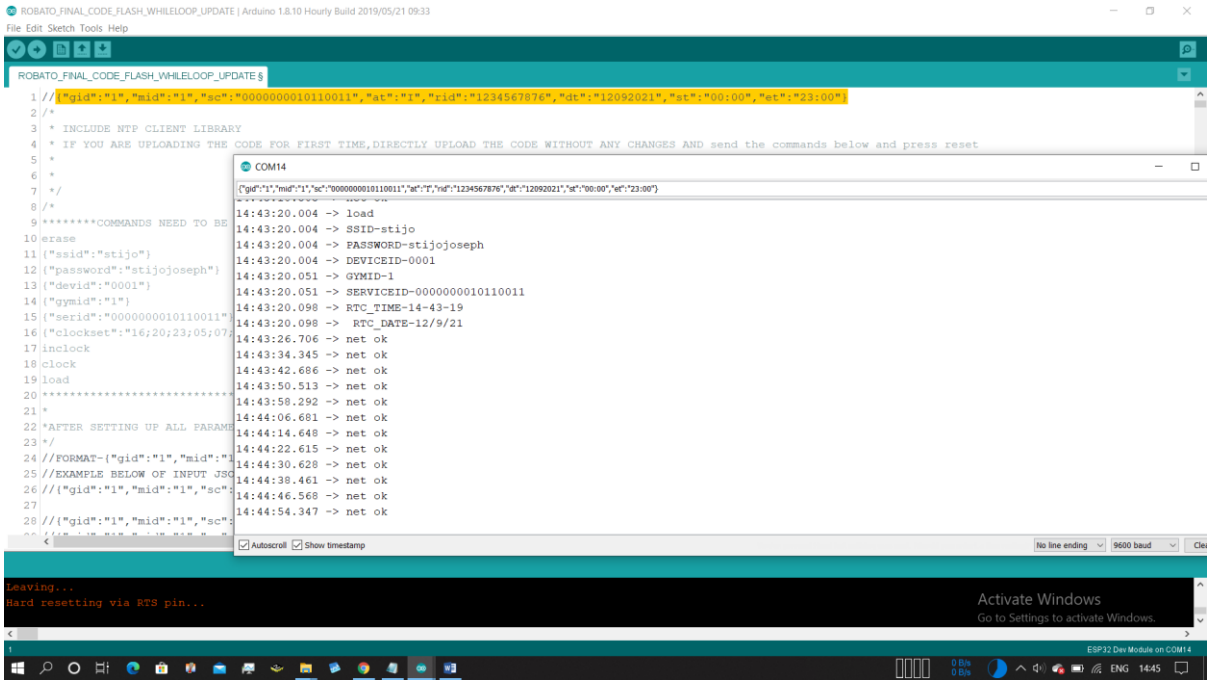
{"clockset":"16;20;23;05;07;21"} //manual clock set if needed

{"clockset":"HH;MM;SS;DD;MM;YY"}

inclock //set the internet clock to rtc

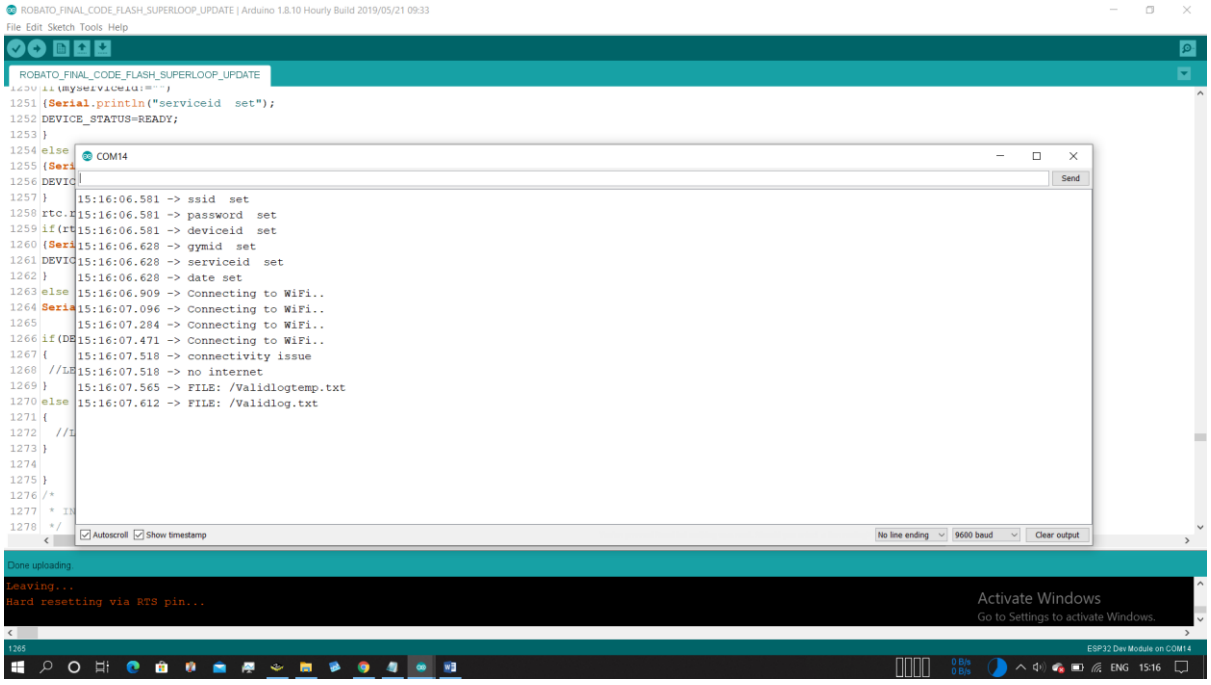
clock //printout current rtc clock datas

load //printout the ssid,password,deviceid,gymid,servicecode stored in eeprom



Load command output

- Press reset button of the Esp32 ,so that device reset



ssid set

password set

deviceid set

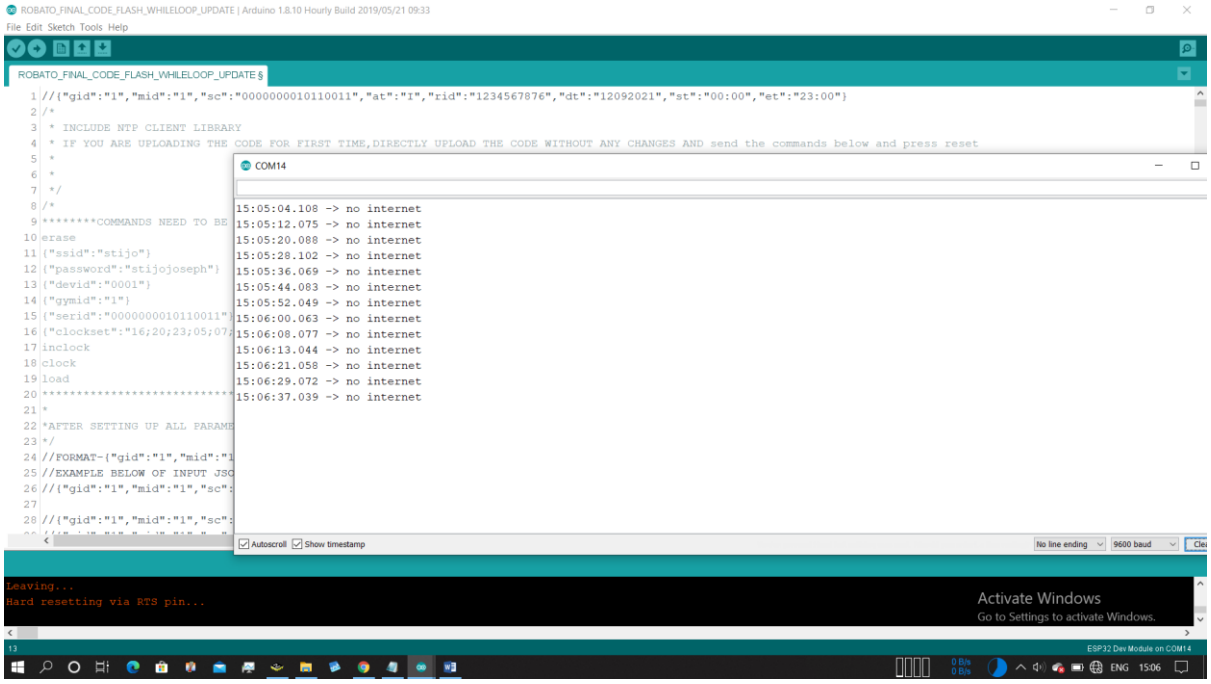
gymid set

serviceid set

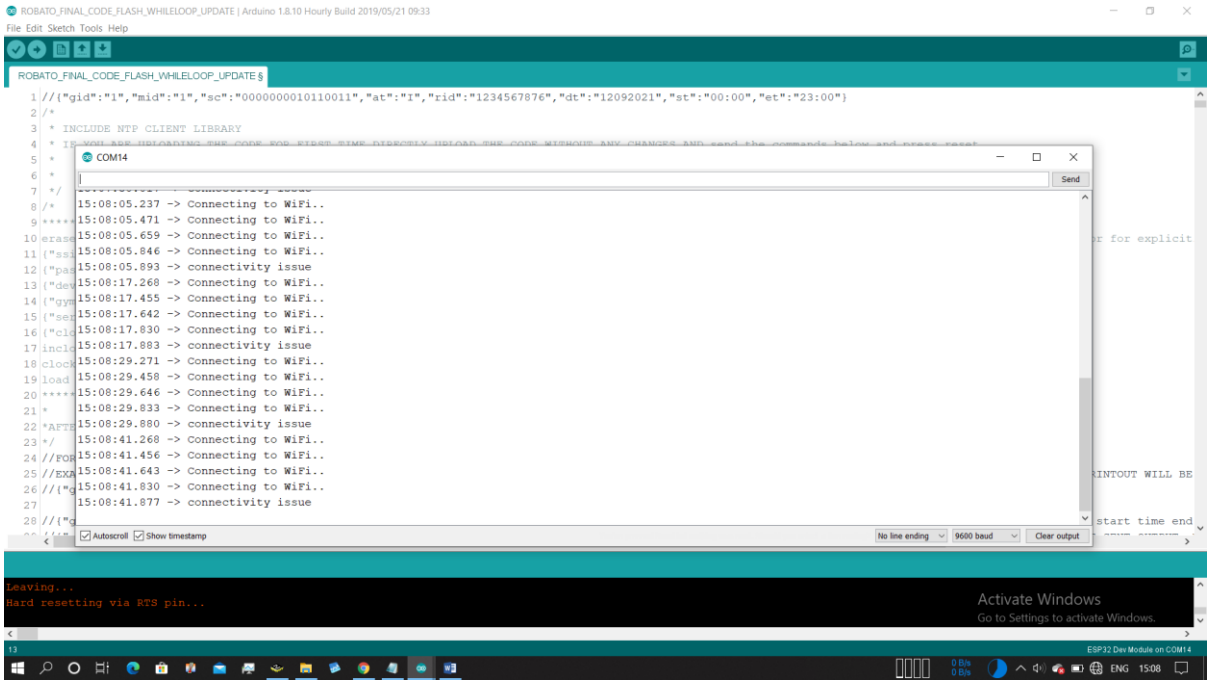
date set

- if any of these paramaters are not set try reconfiguring using its particular commands

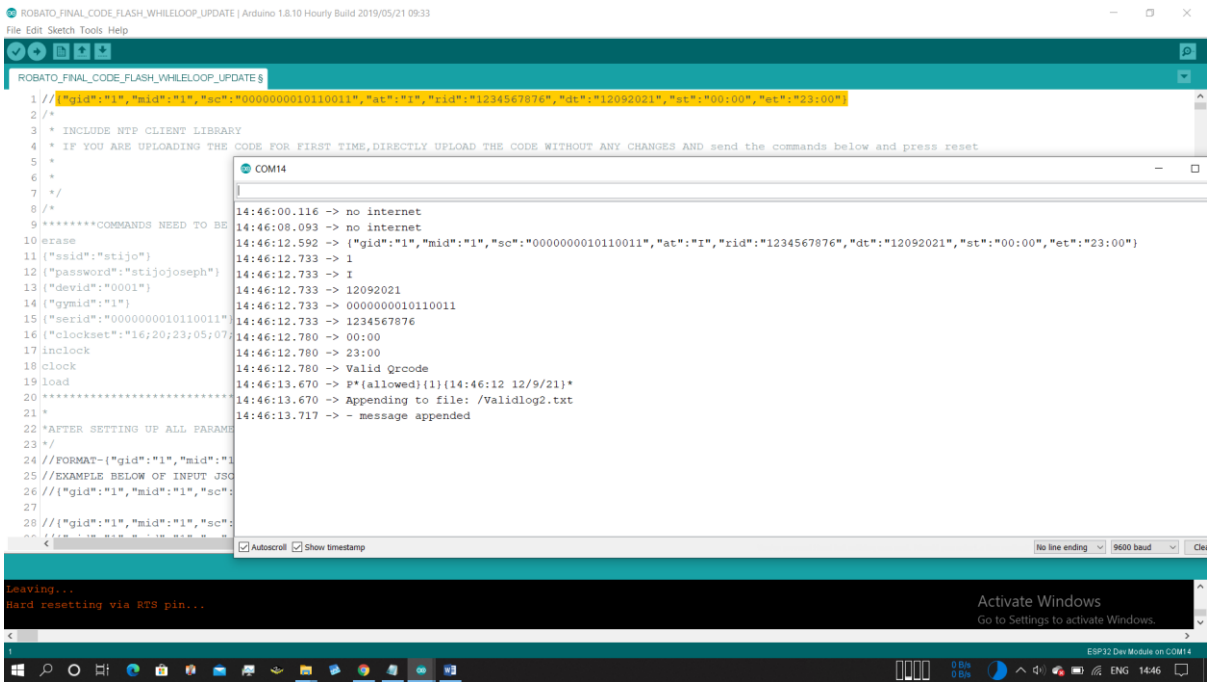
- “net ok” this keeps on outputting onscreen which means internet and wifi connectivity is ok



- If internet connectivity is lost “no internet” is printed out



- If wifi accesspoint is not there or any connectivity issue

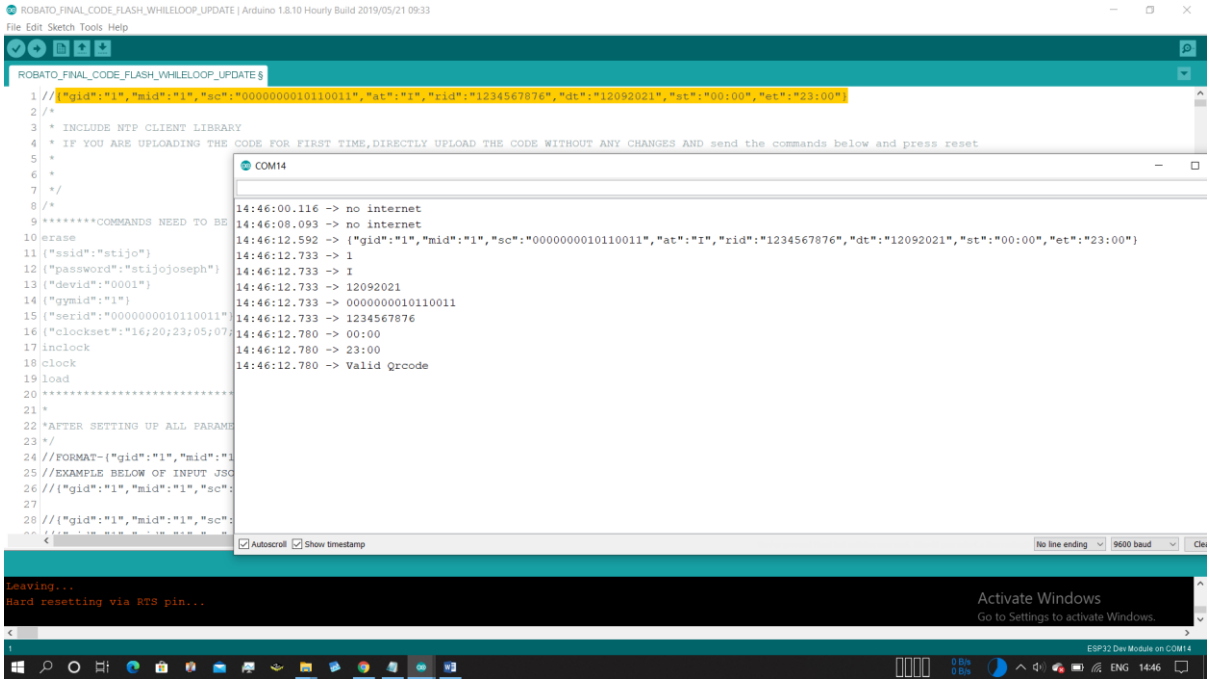


- Copy the first line , set the current date

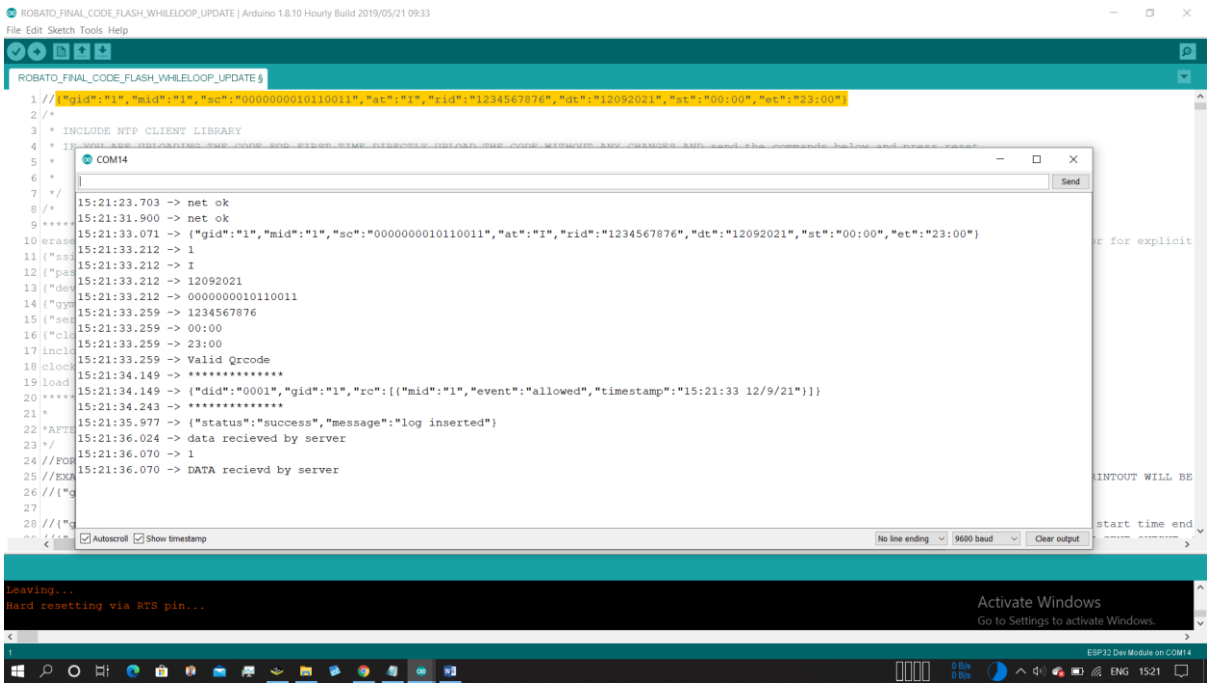
{"gid":"1","mid":"1","sc":"0000000010110011","at":"I","rid":"1234567876","dt":"12092021","st":"00:00","et":"23:00"}

{"gid":"1","mid":"1","sc":"0000000010110011","at":"I","rid":"1234567876","dt":"DDMMYYYY","st":"00:00","et":"23:00"}

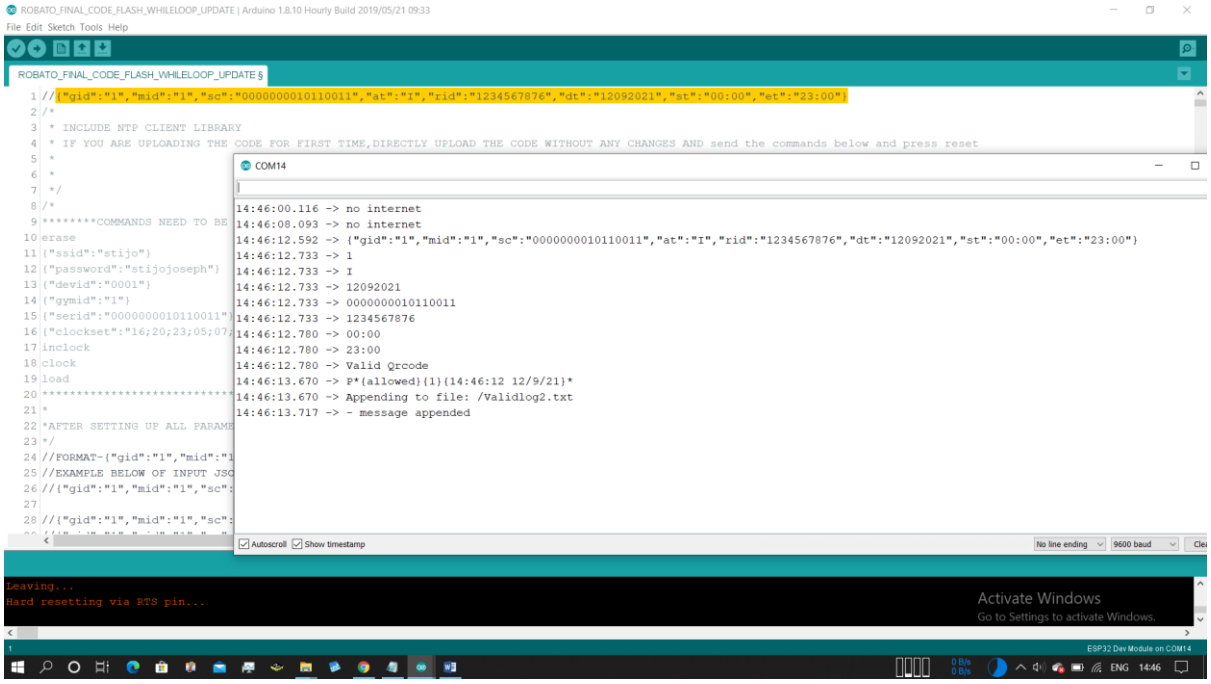
- Then enter it into serial monitor



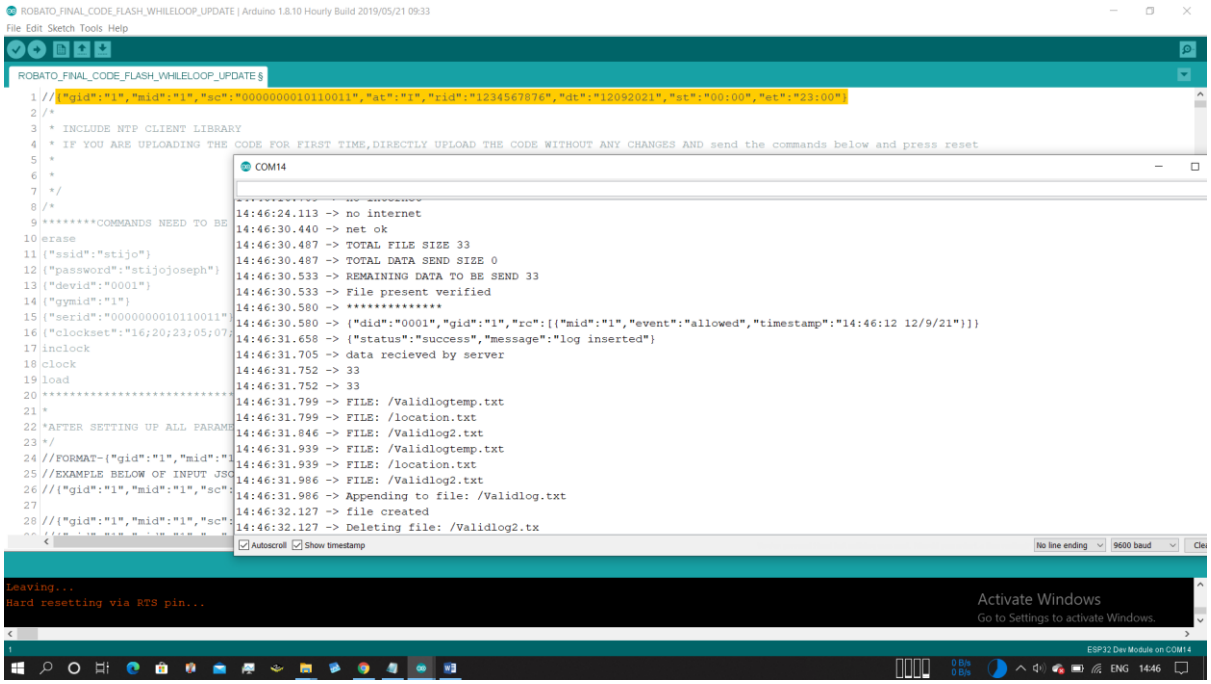
- If your paramters on flash matches the incoming json parameters the output will be this
- And based on internet connectivity it will send it to the server or will write it into the flash file



Eg:data uploaded to server



Eg: Data appended to file due bad internet connectivity



Eg:Automatic update data from file to server when internet connectivity comes back