**import** serial *#This module will establish a direct connection with the Arduino board***import** time *#We need this module to assign a timestamp to each data point (recorded #temperature)***import** re *#This module will serve the function of identifying the few printed lines #with errors (undesired results with commas)*ser = serial.Serial(**'/dev/tty.usbmodem1411'**,baudrate=9600,timeout=1) *#Arguments within #'ser' match the circuit's info*ser.flushInput()  
  
**while True**:  
 **try**: *#The 'try:' compiles how the raw data will be displayed* ser\_bytes = ser.readline() *#ser\_bytes reads the circuit sensor's data* decoded\_bytes\_c = str(ser\_bytes[0:5].decode(**"utf-8"**)) *#This compiles #temperature in Celsius* decoded\_bytes\_f = str(ser\_bytes[6:11].decode(**"utf-8"**)) *#This compiles #temperature in Fahrenheit* date = str(time.strftime(**"%m/%d/%Y,%H:%M:%S"**)) *#as ':try' goes over #temperature lines recorded, each gets a timestamp assigned* result = decoded\_bytes\_c + **","** + decoded\_bytes\_f + **","** + date + **" "** *#results #get separated by commas (which will serve as delimiter)* **if** result == **"," or** result.startswith(**",,"**): *#the temperature sensor rarely #produces garbage data, this if-statement ignores those results* **pass  
 else**:  
 print(result) *#As data gets recorded and printed in PyCharm #(Python/Anaconda platform) it gets stored in a text file too!* f = open(**'Arduino\_Temperature\_Raw\_Data.txt'**, **'a'**) *#'f' creates/append data #to a txt file in my Documents folder any time we run this code* f.write(result)  
 f.close()  
  
 **except**: *#Data will stop getting recorded if we unplug the device/thermometer or if #stop the code* print(**"Keyboard Interrupt"**)  
 **break**