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#Exam 1 but not really
#Feb 11, 2019
#50% Max Huggins
import RPi.GPIO as GPIO
import time
import uControllersDataAcquisition as DtA
GPIO.setmode(GPIO.BOARD)
CS = [29, 32, 18, 8]
CLK = [31, 36, 22, 10]
DOUT = [33, 38, 24, 12]
DIN = [37, 40, 26, 16]
for i in range(0,4):
   GPIO.setup(CS[i], GPIO.OUT)
   GPIO.setup(CLK[i], GPIO.OUT)
   GPIO.setup(DOUT[i], GPIO.IN)
   GPIO.setup(DIN[i], GPIO.OUT)
try:
   my_test = True
   start_time = time.time()
   while my test == True:
       test = DtA.calc tempMCPBudgetLM34(DtA.readMCP(0, CS[0], CLK[0], DOUT[0], DIN[0]))
       print(test)
       test = float(test)
##
         if time.time() - start_time > 5:
##
            break
       if test > 100:
          break
       for i in range(0,4):
          for n in range(0,8):
              if i == 3 and n == 1:
                  break
              d = DtA.readMCP(n, CS[i], CLK[i], DOUT[i], DIN[i])
              TIME[8 * i + n].append(time.time() - start_time)
              t = DtA.calc tempMCPBudgetLM34(d)
              TEMP[8 * i + n].append(t)
   #open a data file for writing in the same directory as the working program
   file = open('./Data/HOTPLATETESTING.txt', 'w')
   for i in range(0,25):
       for n in range(0,len(TIME[i])):
       #Write the data as comma delimites
          file.write(str(TIME[i][n]) + ',' + TEMP[i][n] + '\n')
   #always close the file you are using
   file.close()
except KeyboardInterrupt:
   print("it's fried, dude")
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finally:
    GPIO.cleanup()
    print("Isaac cleaned the oven...")
```