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# Load Controller V1.0
# Created By: Tayler Micca

import time
import numpy as np
import RPi.GPIO as GPIO
GPIO.setmode(GPIO.BCM)

GPIO.setup(18, GPIO.OUT) # set pin 18 as green LED/output
GPIO.setup(20, GPIO.OUT) # Set pin 20 as red LED/output
GPIO.setup(21, GPIO.OUT) # set pin 21 as yellow LED/output

P=0 # set index P

data=np.genfromtxt("/media/WDO_MEDIA32/Data.txt",delimiter ='\n')
# set data to generate numpy capabilities from text file
# set delimiter to new line between entries

for P in range(168):    # loop for number of file entries
  POWERconsum = data[P] # set "POWERconsum" to equal text file array

  print POWERconsum                         # Print current value

  if 300<POWERconsum<370:          # Green LED output for LOW power consumption (300-370 Watts)
      GPIO.output(18, GPIO.HIGH)

  else:
      GPIO.output(18, GPIO.LOW)

  if 370<=POWERconsum<435:         # Yellow LED output for MEDIUM power consumption (370-435 Watts)
      GPIO.output(21, GPIO.HIGH)

  else:
      GPIO.output(21, GPIO.LOW)

  if 435<=POWERconsum<575:         # Red LED output for HIGH power consumption (435-575 Watts)
      GPIO.output(20, GPIO.HIGH)

  else:
      GPIO.output(20, GPIO.LOW)


  time.sleep(.5) # delay in seconds
GPI.cleanup()
```