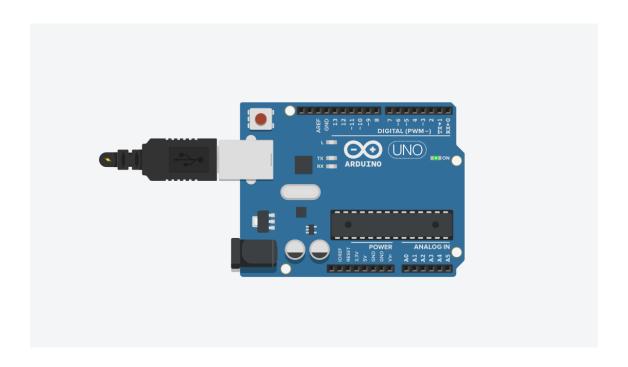
# CONECTAR ARDUÍNO AO NODE-RED

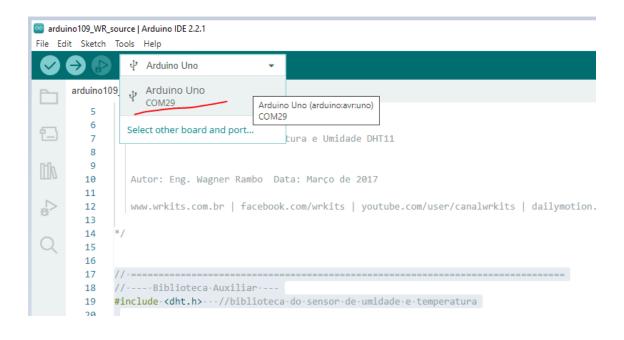
# 1-ABRA ARDUÍNO IDE



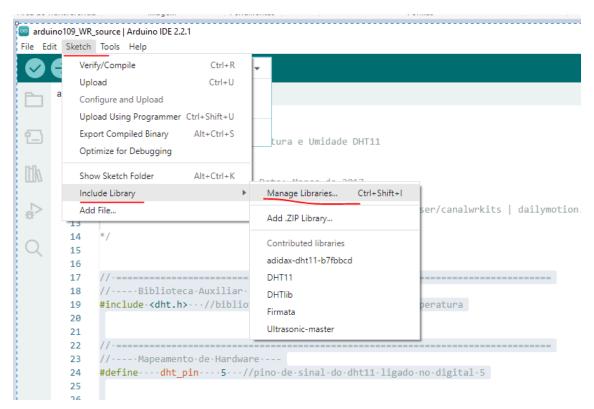
# 2-CONECTE SEU ARDUÍNO AO PC VIA USB

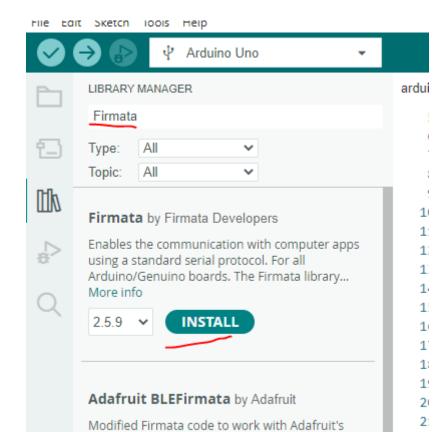


#### 3-SELECIONE A PORTA CORRETA DO MESMO



#### 4-INSTALE A BIBLIOTECA FIRMATA





nRF8001 Breakout and BlueFruit modules

More info

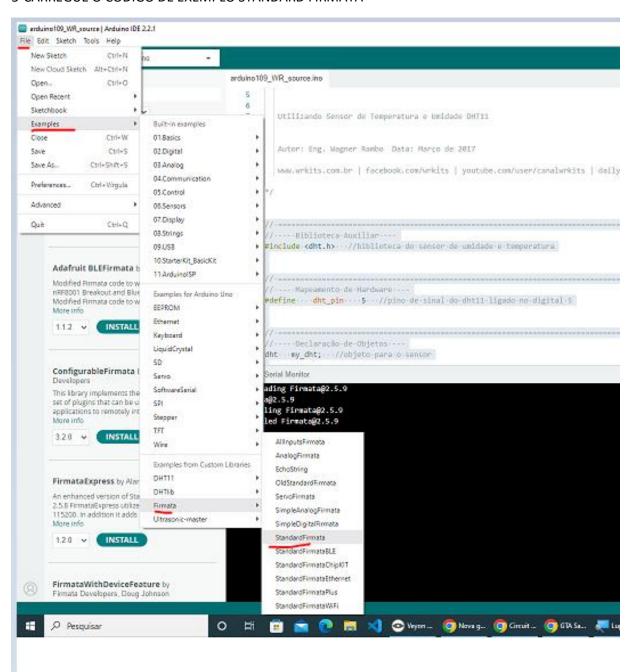
Modified Firmata code to work with Adafruit's...

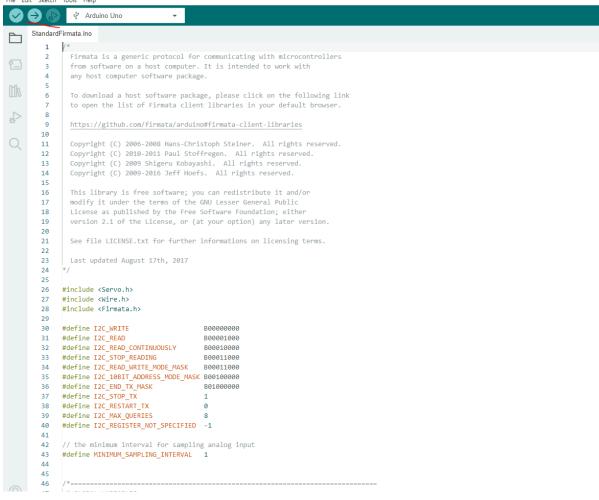
2

2

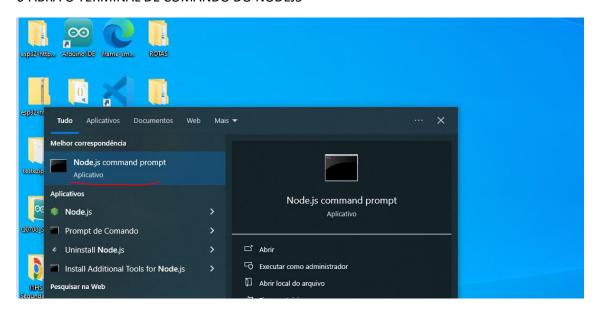
2

## 5-CARREGUE O CÓDIGO DE EXEMPLO STANDARD FIRMATA





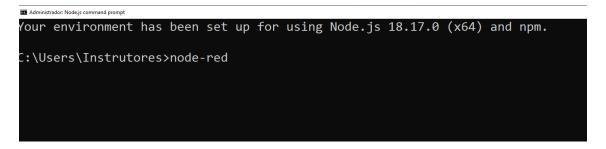
#### 6-ABRA O TERMINAL DE COMANDO DO NODEJS



## 7-FAÇA A INSTALAÇÃO DO AMBIENTE NODE-RED

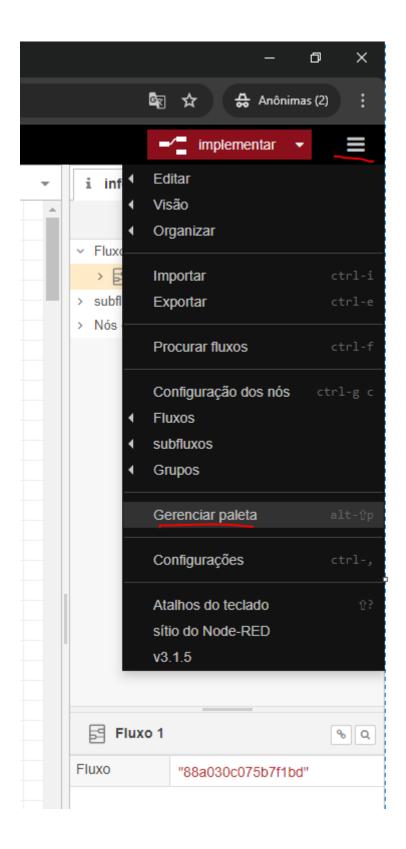


### 8-INCIE O NODE-RED

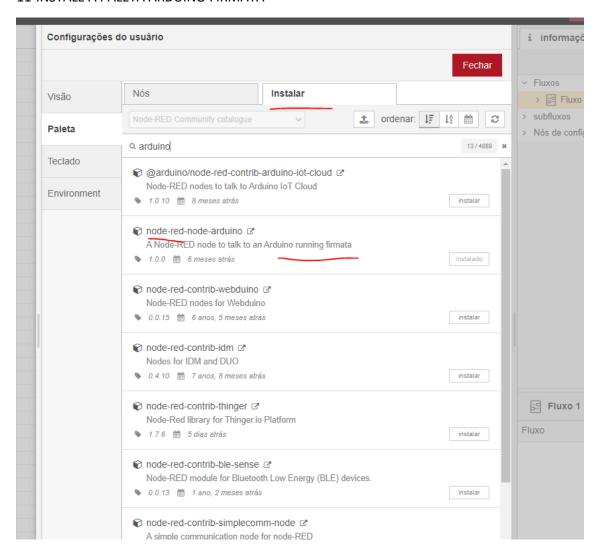


#### 9-ABRA NO NAVEGADOR O AMBIENTE NODE-RED

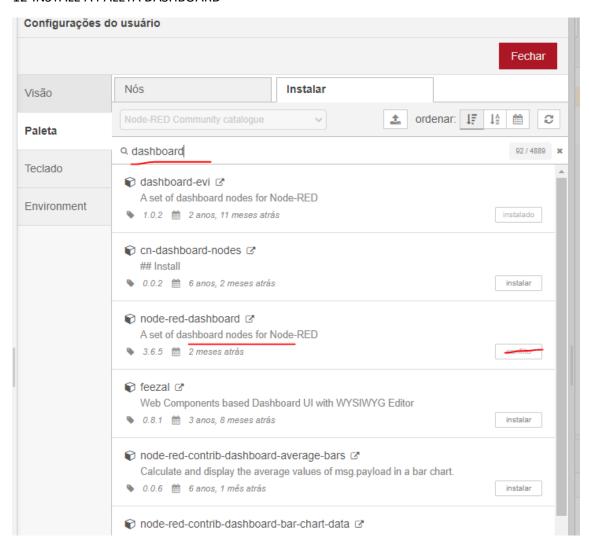




## 11-INSTALE A PALETA ARDUINO FIRMATA



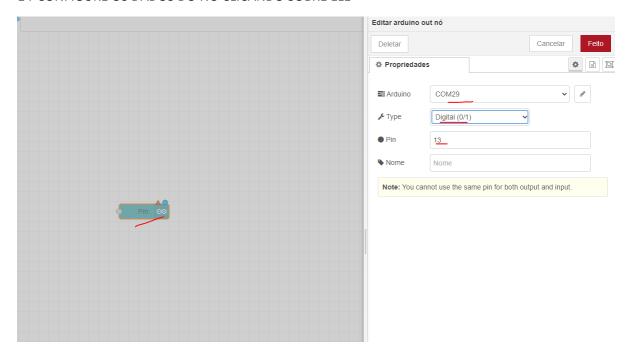
#### 12-INSTALE A PALETA DASHBOARD



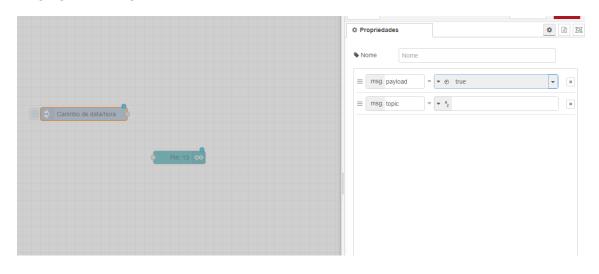
## 13-UTILIZE UM NÓ DO TIPO ARDUINO OUT

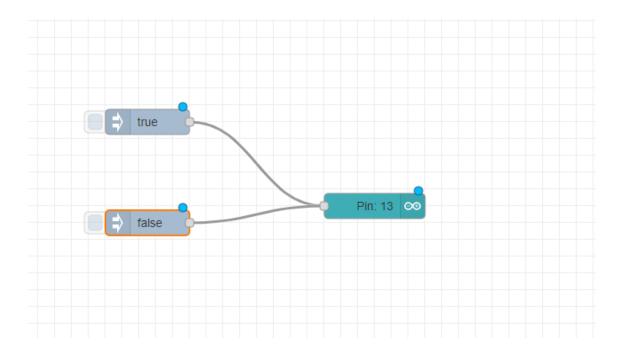


# 14-CONFIGURE OS DADOS DO NÓ CLICANDO SOBRE ELE

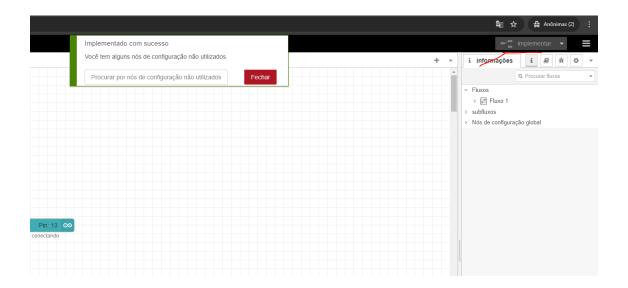


# 15-INSIRA 2 NÓS DO TIPO INJECT E CONFIGURE 1 PARA O TIPO BOLLEAN TRUE E 1 PARA O TIPO BOLLEAN FALSE





# 16-CLIQUE EM IMPLENTAR

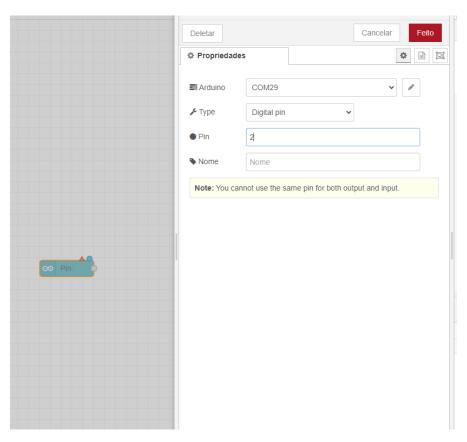


17-PARABÉNS AGORA É POSSÍVEL LIGAR E DESLIGAR O LED DO TEMRINAL 13 VIA NODE RED

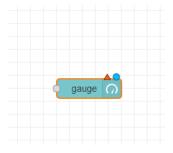
# 18-ADICIONE UM NÓ DO TIPO ARDUINO IN



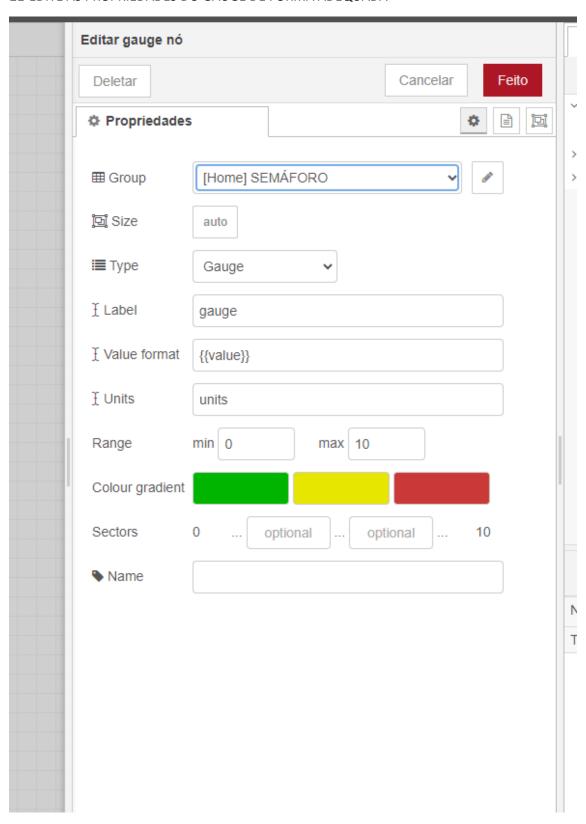
## 19-CONFIGURE ESTE COMO DIGITAL



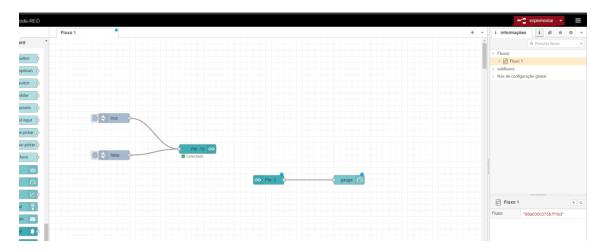
# 20-ARRASTE UM NÓ DO TIPO GAUGE



# 21-EDITE AS PROPRIEDADES DO GAUGE DE FORMA ADEQUADA



# 22-CLIQUE EM IMPLEMENTAR



23-ABRA O NAVEGADOR NA URL : localhost:1880/ui