Industrial IoT Minor

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Experiment - 1

AIM: Procedure on how to make an Arduino IDE environment to operate ESP8266.

OBJECTIVE: Downloading drivers for ESP8266 in Arduino IDE to operate ESP8266 device

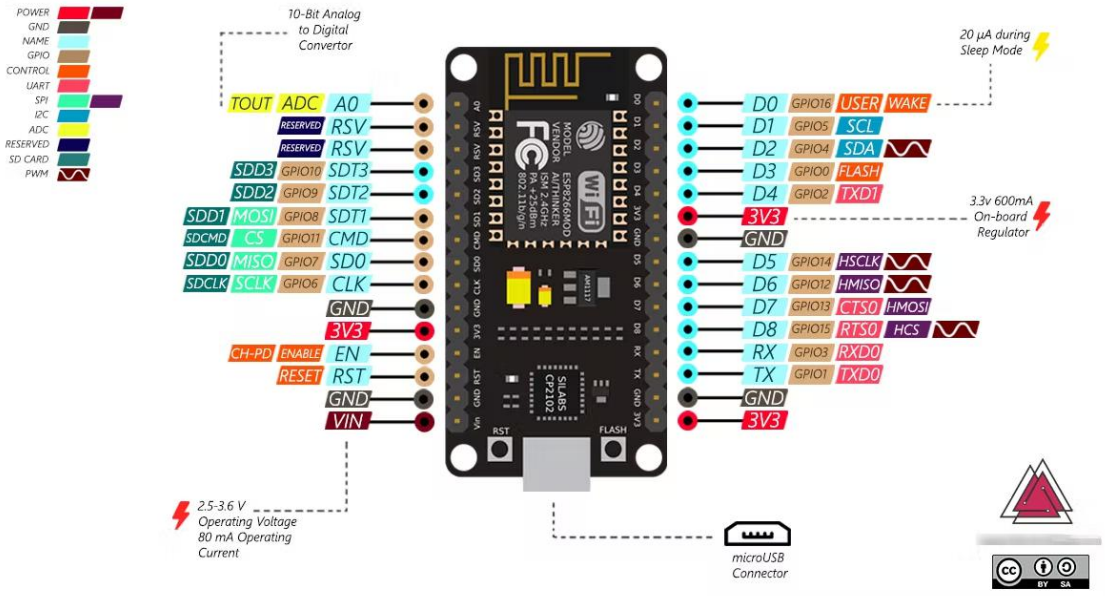
THEORY: The ESP8266 is a low-cost Wi-Fi microchip, with built-in TCP/IP networking software, and micro controller capability. The ESP8285 is a similar chip with a built-in 1 MiB flash memory, allowing the design of single-chip devices capable of connecting via Wi-Fi.

SIMULATION CODE:

To install Node MCU in the Arduino IDE these following steps need to be followed.

STEP 1: Install CP2102 Driver
STEP 2: Install Arduino IDE
STEP 3: Configure Arduino IDE
STEP 4: Configure Node MCU Board
STEP 5: Flash your First Program

SIMULATION RESULT:



CONCLUSION: After performing this experiment we were able to download and connect ESP8266 in Arduino IDE.