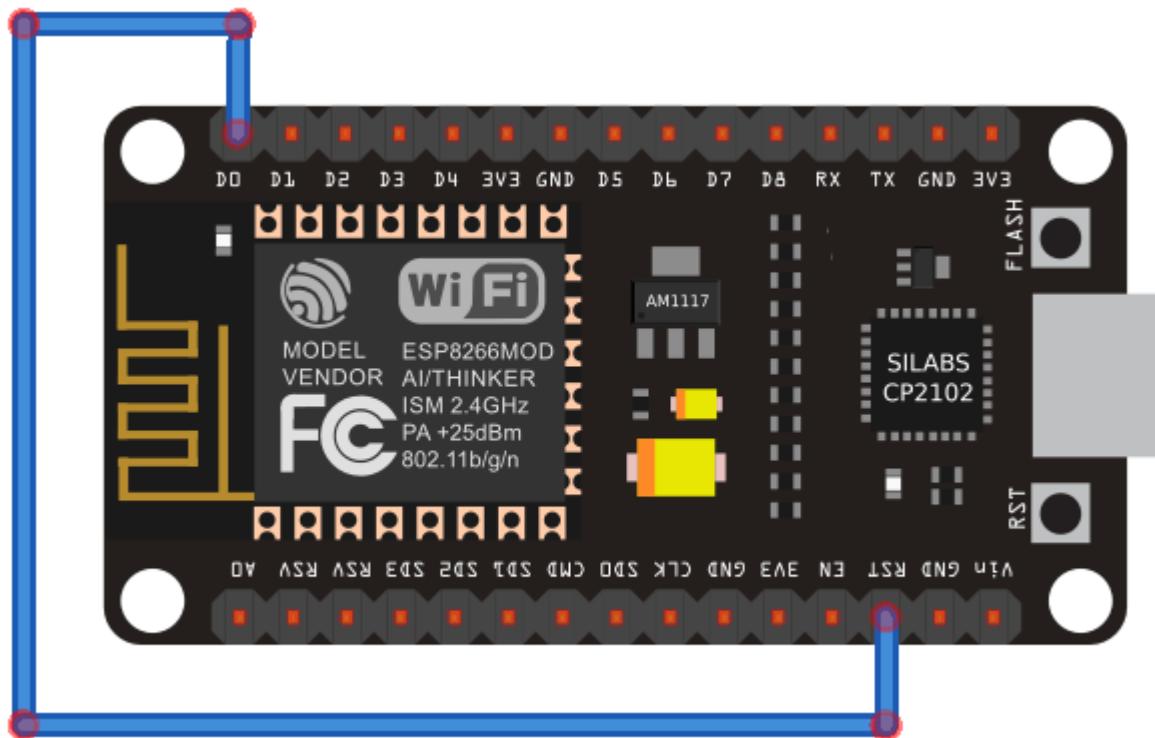


Practical – 9

Aim: Set up Deep Sleep mode for ESP8266 with Arduino IDE.

1. Deep Sleep with Timer Wake Up.

SETUP:



CODE:

```
void setup() {  
    Serial.begin(115200);  
    Serial.setTimeout(2000);  
  
    // Wait for serial to initialize.  
    while(!Serial) {}
```

```
// Deep sleep mode for 30 seconds, the ESP8266 wakes up by itself when
// GPIO 16 (D0 in NodeMCU board) is connected to the RESET pin
Serial.println("");
Serial.println("I'm awake, but I'm going into deep sleep mode for 30 seconds");
ESP.deepSleep(20e6);

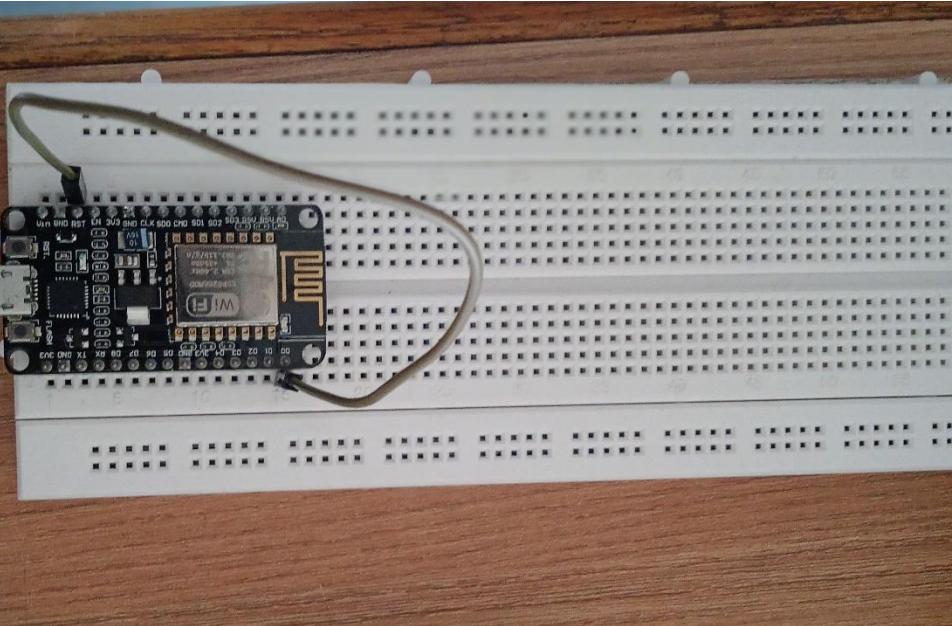
// Deep sleep mode until RESET pin is connected to a LOW signal (for example
// pushbutton or magnetic reed switch)
//Serial.println("I'm awake, but I'm going into deep sleep mode until RESET pin
//is connected to a LOW signal");

//ESP.deepSleep(0);

}

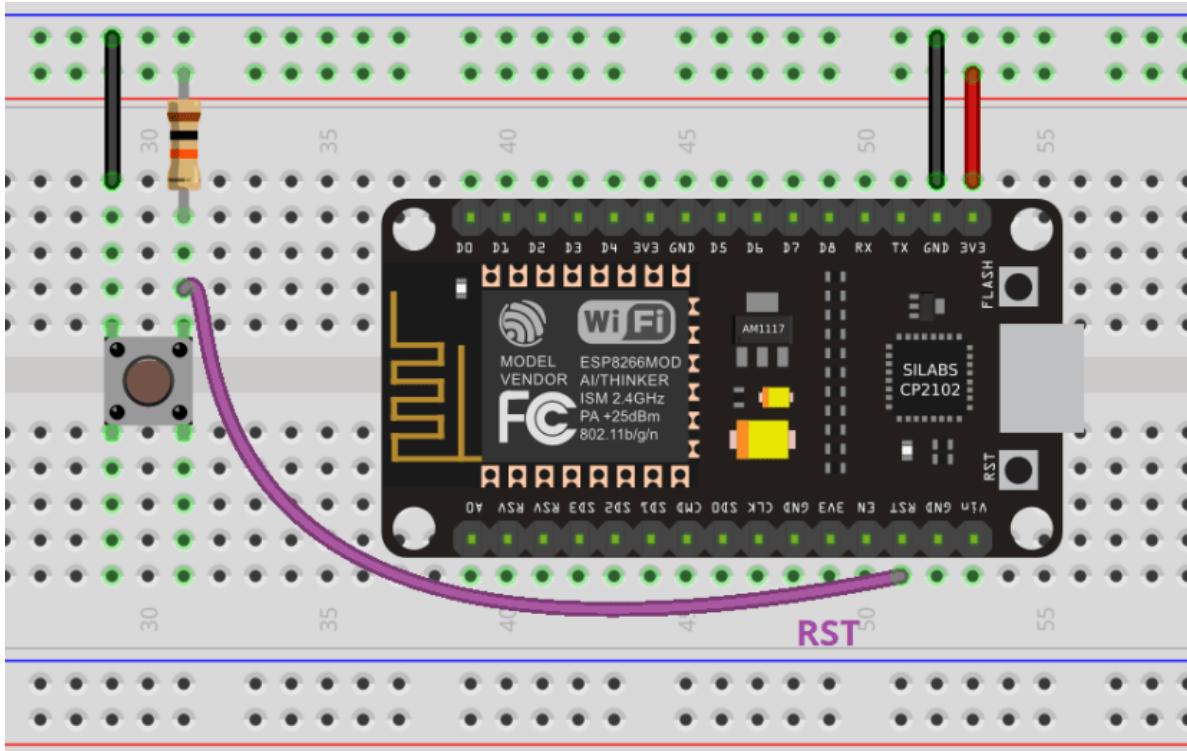
void loop() {
```

OUTPUT:



2. Deep Sleep with External Wake.

SETUP:



CODE:

```

void setup()
{
    Serial.begin(115200);
    Serial.setTimeout(2000);

    // Wait for serial to initialize.
    while(!Serial) { }

    // Deep sleep mode for 30 seconds, the ESP8266 wakes up by itself when GPIO 16 (D0 in
    // NodeMCU board) is connected to the RESET pin
    //Serial.println("I'm awake, but I'm going into deep sleep mode for 30 seconds");
    //ESP.deepSleep(30e6);
}

```

```
// Deep sleep mode until RESET pin is connected to a LOW signal (for example pushbutton  
or magnetic reed switch)  
  
Serial.println("");  
  
Serial.println("I'm awake, but I'm going into deep sleep mode until RESET pin is connected  
to a LOW signal");  
  
ESP.deepSleep(0);  
}  
  
void loop() {  
}
```

OUTPUT: