Experiment Number 3

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Branch ::	CSE - IoT	Sec/Grp ::	1/A
Semester ::	5th	Date ::	17th Sept, 2021
Subject ::	WSN Lab	CODE ::	CSD-331

1. Aim :

Understanding the working of ESP8266 WiFi module and its uses.

2. Requiremnets :

- TinkerCAD
- Arduino Uno
- Resistor

3. Theory :

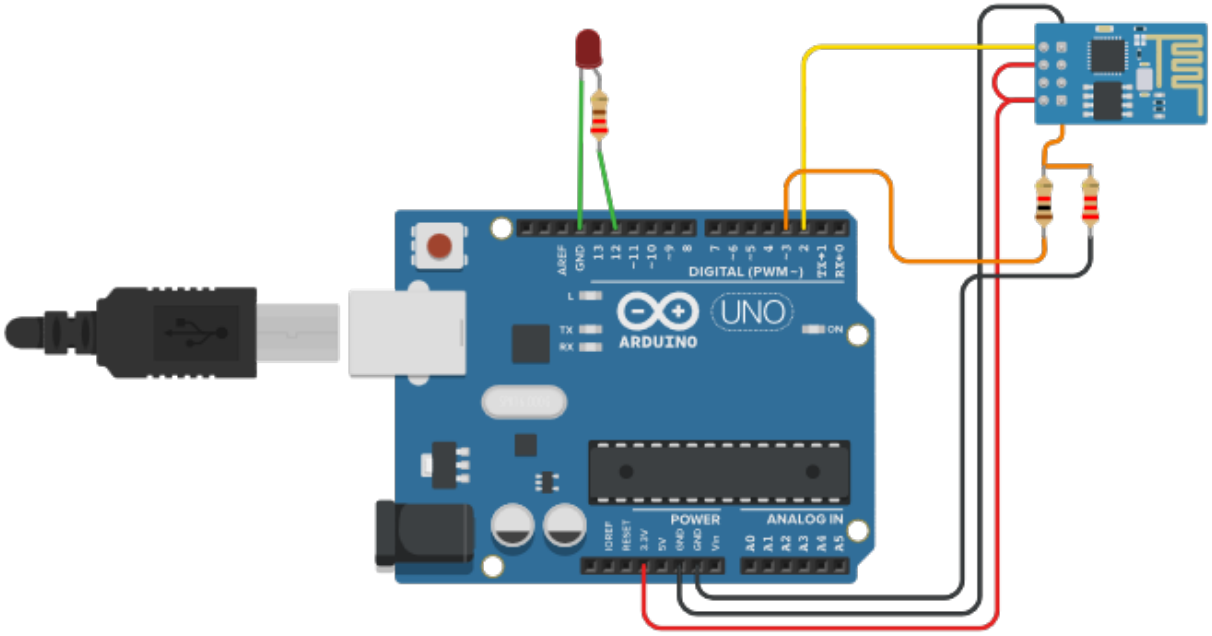
ESP8266 is Wi-Fi enabled system on chip (SoC) module developed by Espressif system. It is mostly used for the development of the Internet of Things (IoT) embedded applications.

The ESP8266 is a low-cost Wi-Fi microchip with full TCP/IP stack and microcontroller capability produced by Shanghai-based Chinese manufacturing company Espressif Systems.

The ESP8266 is capable of either hosting an application or offloading all the Wi-Fi networking functions from another application processor.

Each ESP8266 Wi-Fi module comes pre-programmed with an AT command set firmware, now you can simply hook this up to your Arduino device and get as much Wi-Fi ability as a Wi-Fi Shield offers.

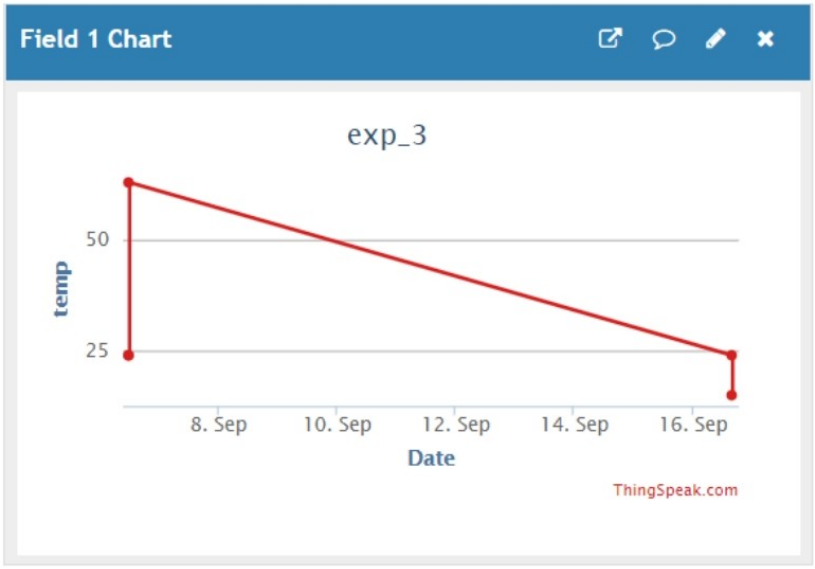
4. Source Code :




```
print("Hello World!")
```

5. Observations :

Last entry: about a minute ago
Entries: 5



Learning Outcomes :

- ESP8266
- Arduino Uno
- TinkerCAD
- ThingSpeak

S. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			