BUILDING A WI-FI REPEATER

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Project Aim

To build a wi-fi repeater using NodeMCU that can even be connected to all IoT devices

Project description:

- 1. Hardwares to be used
 - (a) NodeMCU board
 - (b) External antenna if needed
- 2. Software to be used
 - (a) ESP8266 Flasher
 - (b) Repeater code from open source
- 3. Approach:
 - (a) Connect NodeMCU ESP8266 to PC using micro-USB
 - (b) Install ESP8266 flash tool.Install a open source repeater which is a fully functional WiFi Repeater (with NAT and mesh networking)
 - (c) Using the flash tool, flash the firm wares from the downloaded open source repeater
 - (d) Once it is done, Disconnecting and restarting the NodeMCU, will create access-point for the WiFi
 - (e) Now this open WiFi can be configured with your own WiFi router.
 - (f) For Extending range, external antennas can be used.



Figure 1: Final setup

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