**Getting Started with MicroPython on ESP8266**

1. Install esptool.py : pip install esptool
2. Download firmware from micropython.org
3. Erase the ESP8266 Flash : esptool.py —port  PORT —baud BAUD erase\_flash
4. Flash the MicroPython firmware : esptool.py —port PORT —baud BAUD write\_flash --flash\_size=detect 0 FIRMWARE.bin
5. Telnet into console : screen PORT 115200
6. Test several commands for example :

import os

os.listdir()

f=open(“boot.py”)

f.read()

1. Another alternative is to use WebREPL. Dowload the WebREPL client and then connect our laptop to AP with default password : micropythoN
2. Enable WebREPL and setup access password :

import webrepl\_setup

webrepl.start()

1. Open WebREPL and connect to the board IP
2. We can also configure our board as client/station mode with the same SSID as our laptop so we can connect to it from our laptop without losing internet connection :

import network

wlan = network.WLAN(network.STA\_IF)

wlan.active(True)

wlan.connect('ssid', 'password')

wlan.ifconfig()

1. Install Adafruit –ampy : pip install adafruit-ampy .
2. Set the ampy port : export AMPY\_PORT=PORT
3. We can use ampy to run python program, retrieve/remove/create files on board or load python program into the board. For more detail see ampy documentation

NOTE : for pip, we can use Virtual Environment