Location Using Lopy Pycom and Neo 6M GPS Module

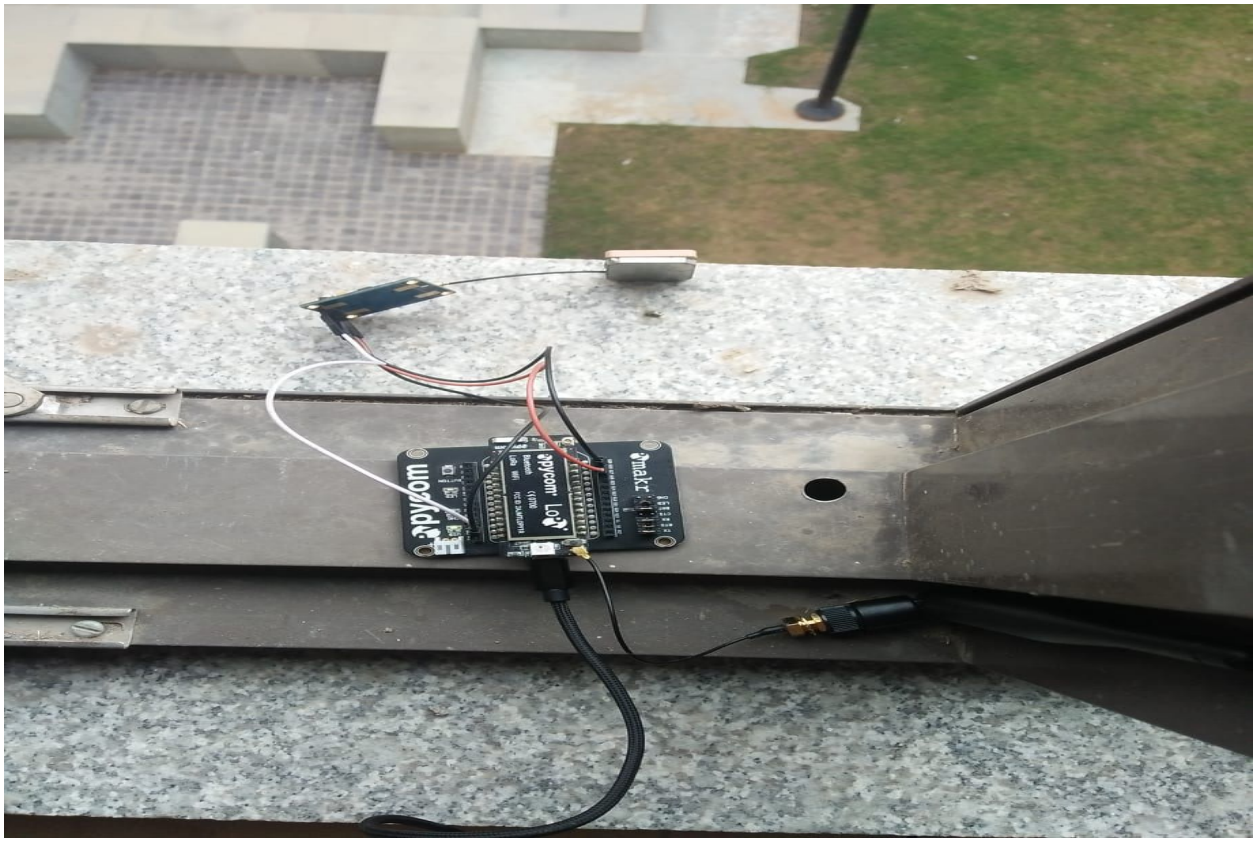
Required Equipment :-
1.Lopy Pycom Board
2.Pymakr Extension Board
3.Atom or Visual Studio Code
4.Computer to Lopy Pycom connecting wire
6.Neo 6M GPS Module
7.Connecting Wires
About Neo 6m GPS Module:

- This module has an external antenna and built-in EEPROM.
- Interface: RS232 TTL
- Power supply: 3V to 5V
- Default baud rate: 9600 bps
- Works with standard NMEA sentences

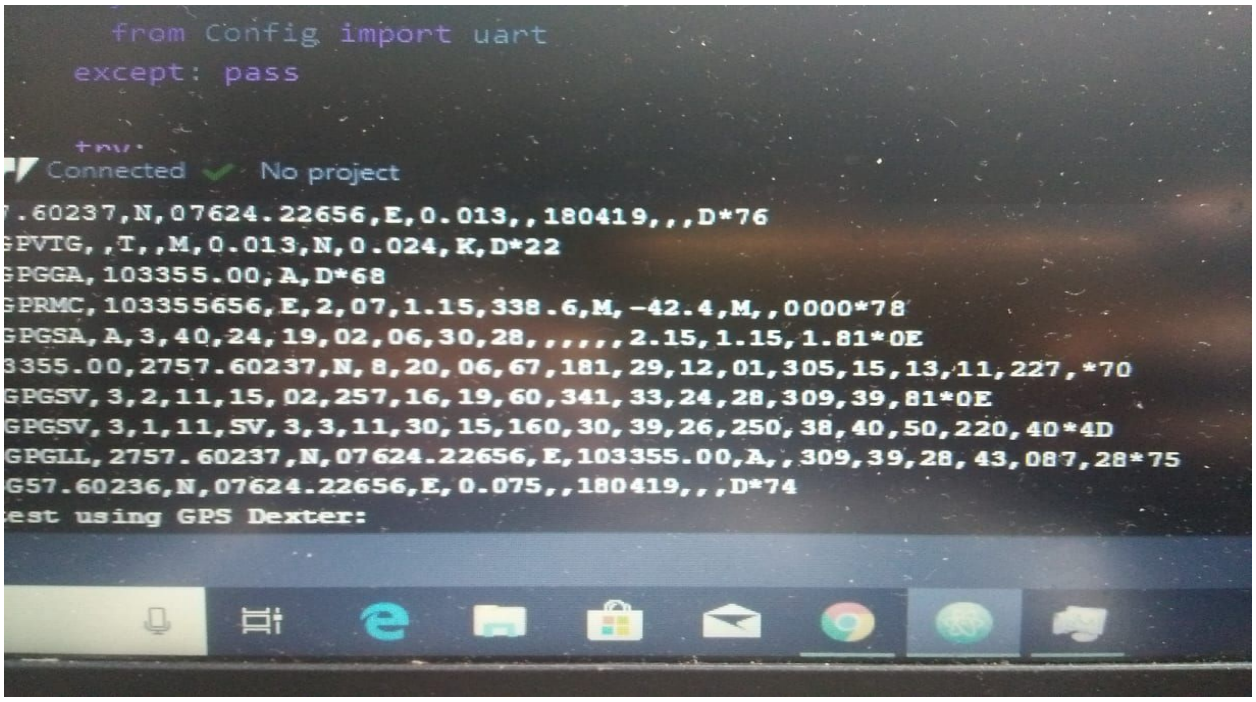
Upload config.py , GPS_dexter.py , gps_test.py , whichUART.py files to Lopy Pycom

Pin Connection :

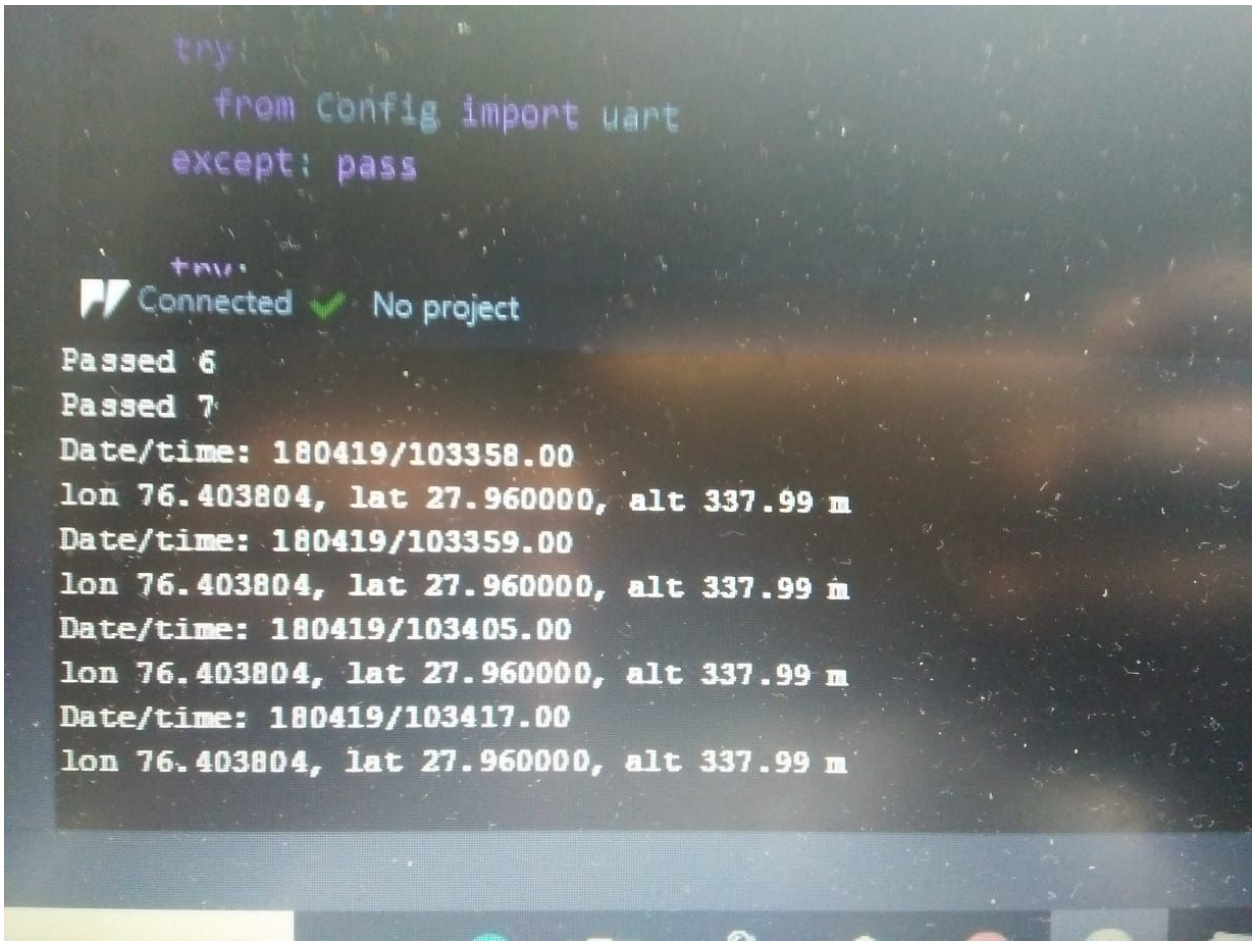
Neo 6M GPS Module	Lopy Pycom
Vcc	3V3
GND	GND
Tx	P3
Rx	P4


pycom
pycom LoPy

NMEA Output :


from config import uart
except: pass
Connected
No project
.60237,N,07624.22656,E,0.013,,180419,,,D*76
GPVTG,,T,,M,0.013,N,0.024,K,D*22
GPGGA,103355.00,A,D*68
GPRMC,103355656,E,2,07,1.15,338.6,M,-42.4,M,,0000*78
GPGSA,A,3,40,24,19,02,06,30,28,,,,,,2.15,1.15,1.81*0E
3355.00,2757.60237,N,8,20,06,67,181,29,12,01,305,15,13,11,227,*70
GPGSV,3,2,11,15,02,257,16,19,60,341,33,24,28,309,39,81*0E
GPGSV,3,1,11,SV,3,3,11,30,15,160,30,39,26,250,38,40,50,220,40*4D
GPGLL,2757.60237,N,07624.22656,E,103355.00,A,,309,39,28,43,087,28*75
G57.60236,N,07624.22656,E,0.075,,180419,,,D*74
est using GPS Dexter:

Result :


try:
from Config import uart
except: pass
Connected
No project
Passed 6
Passed 7
Date/time: 180419/103358.00
lon 76.403804, lat 27.960000, alt 337.99 m
Date/time: 180419/103359.00
lon 76.403804, lat 27.960000, alt 337.99 m
Date/time: 180419/103405.00
lon 76.403804, lat 27.960000, alt 337.99 m
Date/time: 180419/103417.00
lon 76.403804, lat 27.960000, alt 337.99 m