**Connecting Arduino with GPS module**

GPS module will be contained with 4 pins- Vcc (Power Supply), TX,RX and GND.

Vcc is for power supply which is recommended to be 2.6 to 3.6V so a jumper wire connection could be made from GPS module to the power supply 3.2V of Arduino.

GND is connected to the Ground point of Arduino.

TX, RX are also connected to the points at Arduino only.

Whenever code is to be inserted or modified the TX, and RX connection must be removed from the points and after applying the code, the connection must be made.

The **baud rate** is the rate at which information is transferred in a communication channel.

**Explains how to take latitude and longitude data from GPS module.**

Run below code to get GPS related data

Note: Use port as ‘COM1’, ‘COM2’ etc in case of windows machine. Use port as ‘/dev/ttyUSB0’ in case of linux based devices:

$ from pyembedded.gps\_module.gps import GPS

$ gps = GPS(port='COM3', baud\_rate=9600)

$ print(gps.get\_lat\_long())

Distance between two coordinates can be measured by using geodesic library by its distance method in whatever unit you wish like km, miles or etc.