**4.2 Approach/proposed follow of techniques**

We have divided this project into two major segments i.e., the transmitter and receiver with each side containing 3-4 minor parts/segments.

**Transmitter**

The transmitter side is basically made up of three main blocks namely the Arduino Nano, MPU 6050 accelerometer and the HC-05 Bluetooth module.

The MPU 6050 accelerometer is placed on the glove worn by the user and it provides its readings to Arduino Nano depending on the hand position.

The second block is the Arduino Nano which acts like the brain of the entire system controlling and using all other devices interfaced with it. The readings from the accelerometer are processed by the Arduino. Also, the Bluetooth module is connected to the Arduino so that it can send data wirelessly.

The third block is the HC-05 Bluetooth module which transmits the data from the Arduino wirelessly to another HC05 module and Arduino connected on the receiver side of the circuit.

The Arduino Nano is here is powered using a 9v battery and rest of the devices connected take power either from the native or the spare Arduino.

**Receiver**

The receiver here consists of HC-05 Bluetooth module, Arduino Uno, L298N motor driver and two dc motors connected to the driver.

The HC05 module does the work of receiving the signals which are wirelessly transmitted by the HC05 module on the transmitter side.

The Arduino Uno processes the signals coming from the transmitter and sends control signals to the motor driver which in turn drives the dc motors.

The direction of rotation of dc motors is decided depending upon the signals received from the transmitter side.

For example, both the motors would rotate in clockwise direction if the letter ‘F’ is received at the receiver end from the transmitter side.

The Arduino powers the HC-05 Bluetooth module through its 5v output pin. The Arduino along with the L298N motor driver and the motors use two separate 9v batteries for their power.