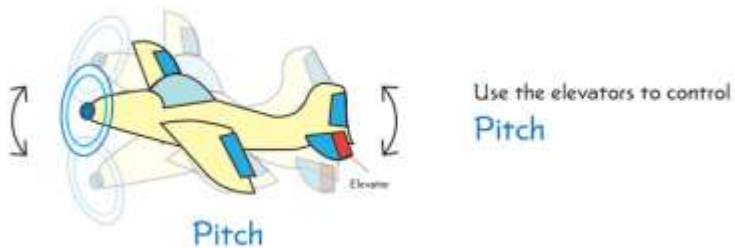
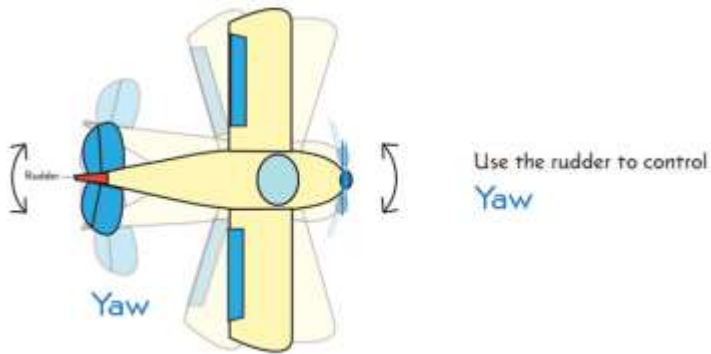
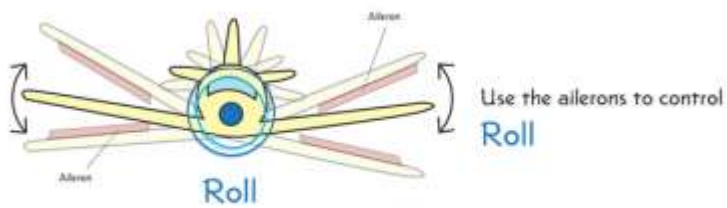


MPU6050 (Roll,Pitch and Raw) Analysis



Y axis အတိုင်းလည်ပတ်တာကို Roll လို့ခေါ်တယ်။

X axis အတိုင်းလည်ပတ်တာကို Yaw လို့ခေါ်တယ်။

Z axis အတိုင်းလည်ပတ်တာကို Pitch လို့ခေါ်တယ်။

```
#include<Wire.h>
```

```
const int MPU_addr=0x68; // I2C address of the MPU-6050
```

```
int16_t AcX,AcY,AcZ,Tmp,GyX,GyY,GyZ;
```

```
void setup(){
```

```
  Wire.begin();
```

```
  Wire.beginTransmission(MPU_addr);
```

```

Wire.write(0x6B); // PWR_MGMT_1 register

Wire.write(0);    // set to zero (wakes up the MPU-6050)

Wire.endTransmission(true);

Serial.begin(9600);

}

void loop(){

Wire.beginTransmission(MPU_addr);

Wire.write(0x3B); // starting with register 0x3B (ACCEL_XOUT_H)

Wire.endTransmission(false);

Wire.requestFrom(MPU_addr,14,true); // request a total of 14 registers

AcX=Wire.read()<<8|Wire.read(); // 0x3B (ACCEL_XOUT_H) & 0x3C (ACCEL_XOUT_L)

AcY=Wire.read()<<8|Wire.read(); // 0x3D (ACCEL_YOUT_H) & 0x3E (ACCEL_YOUT_L)

AcZ=Wire.read()<<8|Wire.read(); // 0x3F (ACCEL_ZOUT_H) & 0x40 (ACCEL_ZOUT_L)

Tmp=Wire.read()<<8|Wire.read(); // 0x41 (TEMP_OUT_H) & 0x42 (TEMP_OUT_L)

GyX=Wire.read()<<8|Wire.read(); // 0x43 (GYRO_XOUT_H) & 0x44 (GYRO_XOUT_L)

GyY=Wire.read()<<8|Wire.read(); // 0x45 (GYRO_YOUT_H) & 0x46 (GYRO_YOUT_L)

GyZ=Wire.read()<<8|Wire.read(); // 0x47 (GYRO_ZOUT_H) & 0x48 (GYRO_ZOUT_L)

Serial.print("AcX = "); Serial.println(AcX);

Serial.print(" | AcY = "); Serial.println(AcY);

Serial.print(" | AcZ = "); Serial.println(AcZ);

```

```
Serial.print(" | Tmp = "); Serial.println(Tmp/340.00+36.53); //equation for temperature in  
degrees C from datasheet
```

```
Serial.print(" | GyX = "); Serial.println(GyX);
```

```
Serial.print(" | GyY = "); Serial.println(GyY);
```

```
Serial.print(" | GyZ = "); Serial.println(GyZ);
```

```
delay(333);
```

```
}
```