

```

#define muxIn 0
#define muxPin0 2
#define muxPin1 3
#define muxPin2 4
#define muxPin3 5

void setup() {

    Serial.begin(9600);
    pinMode(muxPin0, OUTPUT);
    pinMode(muxPin1, OUTPUT);
    pinMode(muxPin2, OUTPUT);
    pinMode(muxPin3, OUTPUT);

}

void loop() {
    Serial.println();
    Serial.print("Values from 4067");
    Serial.print("*****");
    for(int i = 0;i <16;i++){
        int sigValue = readMux(i);
        Serial.print(i);
        Serial.print("\t");
        Serial.print(sigValue);
        float voltage = ((sigValue + 0.5)/1024.0*4.85);
        Serial.print("\t");
        Serial.print(voltage);
        Serial.println();
        delay(1000);
    }
    Serial.print("*****");
    delay(2000);
}

int readMux(int channel)
{

```

```
digitalWrite(muxPin0,bitRead(channel,0));  
digitalWrite(muxPin1,bitRead(channel,1));  
digitalWrite(muxPin2,bitRead(channel,2));  
digitalWrite(muxPin3,bitRead(channel,3));
```

```
int muxValue = analogRead(muxIn);  
return muxValue;  
}
```