

```
/*  
  
int ph_pin = A0; //This is the pin number connected to Po  
void setup() {  
  Serial.begin(9600);  
  
void loop() {  
  
int measure = analogRead(ph_pin);  
  
Serial.print("Measure: ");  
Serial.print(measure);  
  
double voltage = 5 / 1024.0 * measure; //classic digital to voltage  
conversion  
Serial.print("\tVoltage: ");  
Serial.print(voltage, 3);  
  
// PH_step = (voltage@PH7 - voltage@PH4) / (PH7 - PH4)  
// PH_probe = PH7 - ((voltage@PH7 - voltage@probe) / PH_step)  
float Po = 7 + ((2.5 - voltage) / 0.18);  
Serial.print("\tPH: ");  
Serial.print(Po, 3);  
Serial.println("");  
delay(2000);  
  
}*/  
  
const int phPin = A0; int sensorValue = 0; unsigned long int avgValue; float b; int buf[10],temp;  
void setup () {  
  
  Serial.begin(9600);  
  
}  
  
void loop () {  
  
for (int i=0;i<10;i++) {  
  buf[i]=analogRead(phPin);  
  delay(10);  
  
}  
  
for (int i=0;i<9;i++) {  
  for (int j=i+1;j<10;j++) {  
    if (buf[i]>buf[j]) {  
      temp=buf[i];  
      buf[i]=buf[j];  
      buf[j]=temp;  
    }  
  }  
}
```

```
    }  
  }  
  avgValue=0;  
  for(int i=2;i<8;i++)  
  avgValue+=buf[i];  
  float pHVol = (float)avgValue*5.0/1024/6;  
  float pHValue = -5.70 * pHVol + 21.34 ;  
  Serial.print("Sensor = ");  
  Serial.println(pHValue);  
  delay(20);  
  
}
```

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