

Čítanie polohy potenciometra

```
#define RES 1023
#define AREF 5

int i;

void setup()
{
    Serial.begin(9600);
    pinMode(3, OUTPUT);
}

void loop()
{
    Serial.print(valToVolt(analogRead(A0)));
    Serial.print(" Volts, ");
    Serial.println(analogRead(A0));
    delay(250);
    i = analogRead(A0);
    if(i > 32 && i < 250)
    {
        analogWrite(3,((analogRead(A0)- 23) / 10));
        digitalWrite(5,LOW);
        digitalWrite(9,LOW);
        digitalWrite(10,LOW);
    }
    else if (i > 250 & i < 500)
    {
        analogWrite(3,((analogRead(A0)- 23) / 10));
        analogWrite(5,((analogRead(A0)- 23) / 10)-250);
        digitalWrite(9,LOW);
        digitalWrite(10,LOW);
    }
    else if (i > 500 && i < 750)
    {
        analogWrite(3,((analogRead(A0)- 23) / 10));
        analogWrite(5,((analogRead(A0)- 23) / 10)-250);
        analogWrite(9,((analogRead(A0)- 23) / 10)-500);
        digitalWrite(10,LOW);
    }
    else if(i > 750)
    {
        analogWrite(3,((analogRead(A0)- 23) / 10));
        analogWrite(5,((analogRead(A0)- 23) / 10)-250);
        analogWrite(9,((analogRead(A0)- 23) / 10)-500);
        analogWrite(10,((analogRead(A0)- 23) / 10)-750);
    }
    else
    {
        digitalWrite(3, LOW);
        digitalWrite(5,LOW);
        digitalWrite(9,LOW);
        digitalWrite(10,LOW);
    }
}

double valToVolt(double val)
{
    return AREF*(val/RES);
}
```

