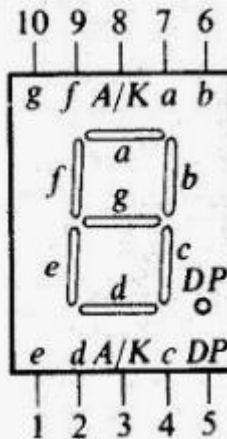
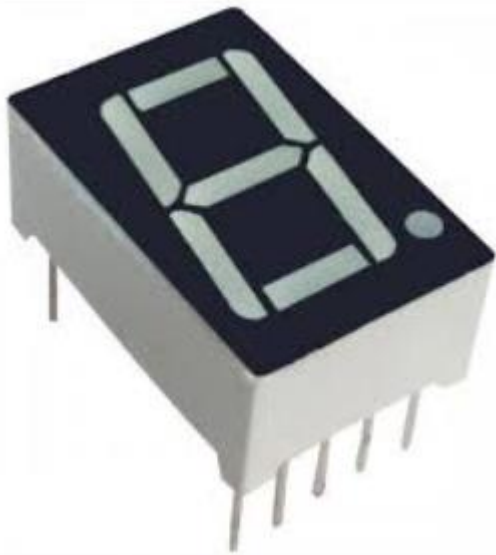


VISUALIZZA NUMERO IN DISPLAY 7 SEGMENTI CON ARDUINO™

Materiali

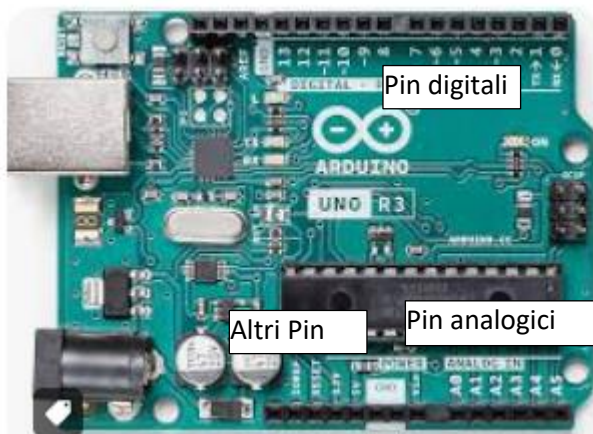
Display 516185ad anodo comune



Ciascun segmento è un led collegato a un pin come in figura

Per esempio per visualizzare il numero 2 occorre accendere abged, quindi mettere 0V i pin 7(10)12e a +5 V il pin 8 o il pin 3

Arduino uno



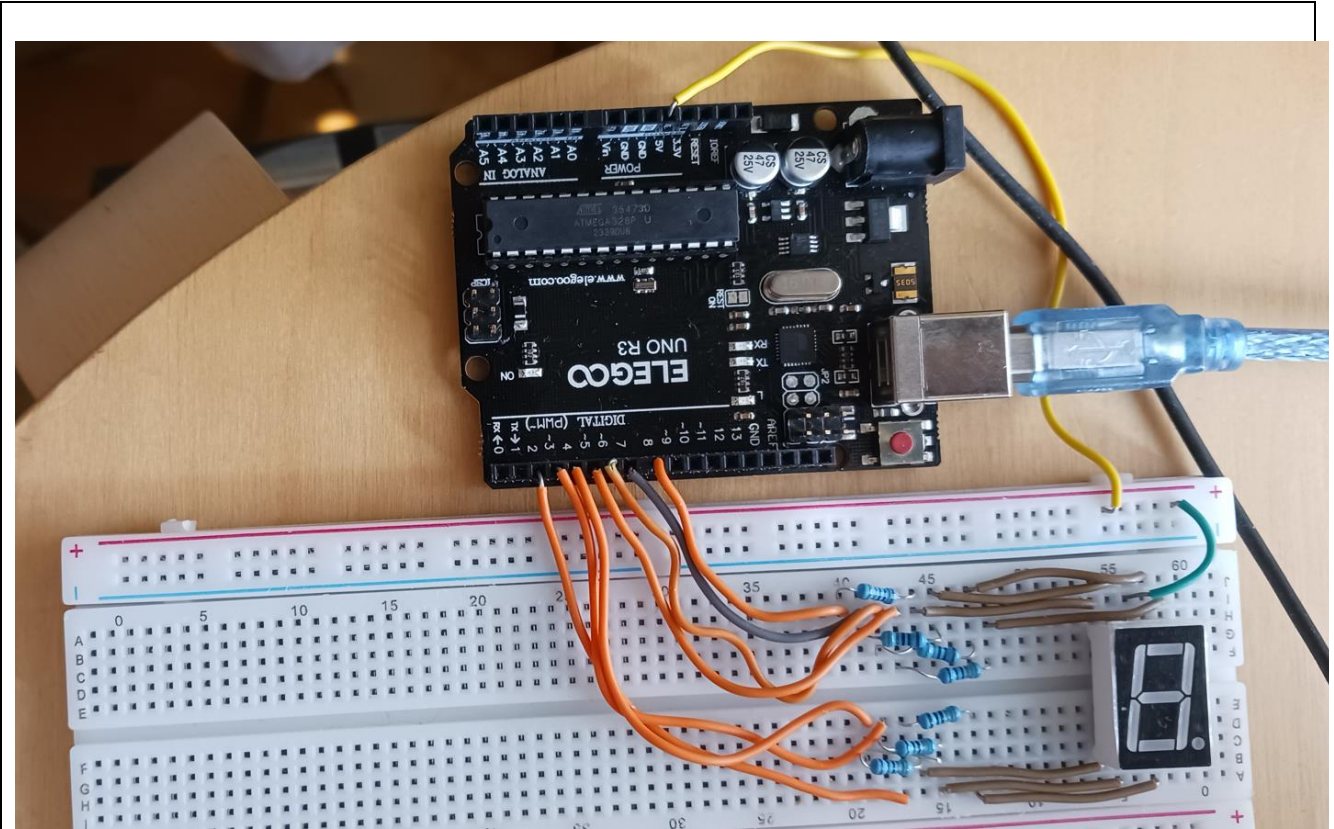
Servono poi

7 resistenze da 330 Ω da inserire in serie ai 7 segmenti

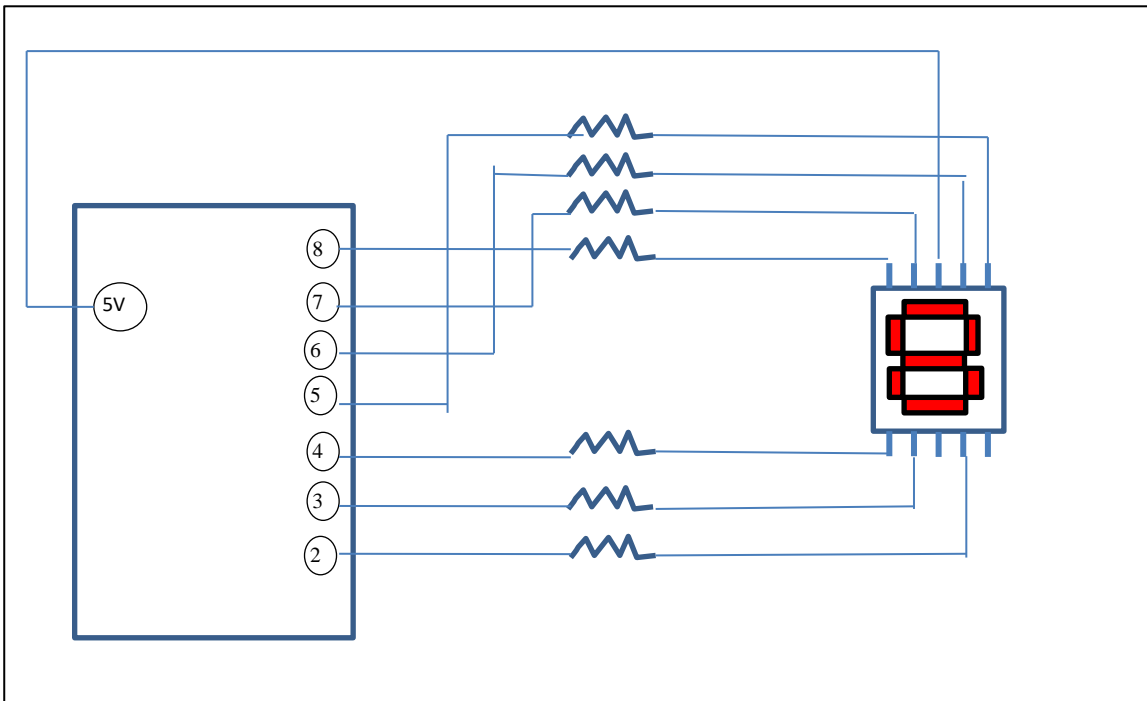
Una breadboard

Fili di collegamento

Pc con l'IDE di arduino



Schema



Programma

```
//corrispondenza tra i segmenti del display e le digitali
int a = 6;
int b = 5;
int c = 2;
int d = 3;
int e =4 ;
int f = 7;
int g = 8;
int m=0;
//visualizza il numero m
void printnum(int ){
    //imposta tutte le uscite al livello alto +5V
    digitalWrite(g,HIGH);
    digitalWrite(f, HIGH);
    digitalWrite(a, HIGH);
    digitalWrite(b, HIGH);
    digitalWrite(e, HIGH);
    digitalWrite(c, HIGH);
    digitalWrite(d, HIGH);

    switch(m){
        case 0:{
            //imposta i segmenti a livello basso 0 V
            digitalWrite(a, LOW);
            digitalWrite(b, LOW);
            digitalWrite(c, LOW);
            digitalWrite(d, LOW);
            digitalWrite(e, LOW);
            digitalWrite(f, LOW);
        }break;
        case 1:{
            digitalWrite(b, LOW);
            digitalWrite(c, LOW);
        }break;
        case 2:{
            digitalWrite(g, LOW);
            digitalWrite(a, LOW);
            digitalWrite(b, LOW);
            digitalWrite(e, LOW);
            digitalWrite(d, LOW);
        }break;
        case 3:{

            digitalWrite(g, LOW);
            digitalWrite(a, LOW);
            digitalWrite(b, LOW);
            digitalWrite(c, LOW);
            digitalWrite(d, LOW);
```

```
}break;
case 4:{
    digitalWrite(g, LOW);
    digitalWrite(f, LOW);
    digitalWrite(b, LOW);
    digitalWrite(c, LOW);
}break;
case 5:{
    digitalWrite(g, LOW);
    digitalWrite(f, LOW);
    digitalWrite(a, LOW);
    digitalWrite(c, LOW);
    digitalWrite(d, LOW);
}break;
case 6:{
    digitalWrite(g, LOW);
    digitalWrite(a, LOW);
    digitalWrite(e, LOW);
    digitalWrite(c, LOW);
    digitalWrite(d, LOW);
    digitalWrite(f, LOW);

}break;
case 7:{
    digitalWrite(f, LOW);
    digitalWrite(a, LOW);
    digitalWrite(b, LOW);
    digitalWrite(c, LOW);
}break;
case 8:{
    digitalWrite(g, LOW);
    digitalWrite(f, LOW);
    digitalWrite(a, LOW);
    digitalWrite(b, LOW);
    digitalWrite(e, LOW);
    digitalWrite(c, LOW);
    digitalWrite(d, LOW);
}break;
case 9:{
    digitalWrite(g, LOW);
    digitalWrite(f, LOW);
    digitalWrite(a, LOW);
    digitalWrite(b, LOW);
    digitalWrite(c, LOW);
    digitalWrite(d, LOW);
}break;
```

```
}
```

```
}
```

```
void setup(){
  // configura i pin come uscite
  pinMode(f, OUTPUT);
  pinMode(g, OUTPUT);
  pinMode(a, OUTPUT);
  pinMode(b, OUTPUT);
  pinMode(e, OUTPUT);
  pinMode(c, OUTPUT);
  pinMode(d, OUTPUT);
  Serial.begin(9600);
}

void loop() {

  printnum(m);
  delay(4000);

  m=m+1;

  if (m==10){m=0;}

}
```

Programma editato con ARDUINO IDE ver 3.2.3

Compilato e caricato su scheda ARDUINO uno mediante collegamento USB