

CÓDIGO – PROYECTO DISPLAY
7 SEGMENTOS – 01
(CONTADOR DE 0 A 9)

```
const int a=2;
const int b=3;
const int c=4;
const int d=5;
const int e=6;
const int f=7;
const int g=8;
const int h=9;

void setup() {
  pinMode(a, OUTPUT);
  pinMode(b, OUTPUT);
  pinMode(c, OUTPUT);
  pinMode(d, OUTPUT);
  pinMode(e, OUTPUT);
  pinMode(f, OUTPUT);
  pinMode(g, OUTPUT);
  pinMode(h, OUTPUT);

}

void loop() {

  // CERO
  digitalWrite(a, LOW);
  digitalWrite(b, LOW);
  digitalWrite(c, LOW);
  digitalWrite(d, LOW);
  digitalWrite(e, LOW);
  digitalWrite(f, LOW);
  digitalWrite(g, HIGH);
  digitalWrite(h, LOW);
```

```
delay(500);

  //UNO
  digitalWrite(a, HIGH);
  digitalWrite(b, LOW);
  digitalWrite(c, LOW);
  digitalWrite(d, HIGH);
  digitalWrite(e, HIGH);
  digitalWrite(f, HIGH);
  digitalWrite(g, HIGH);
  digitalWrite(h, LOW);
  delay(500);

  //DOS
  digitalWrite(a, LOW);
  digitalWrite(b, LOW);
  digitalWrite(c, HIGH);
  digitalWrite(d, LOW);
  digitalWrite(e, LOW);
  digitalWrite(f, HIGH);
  digitalWrite(g, LOW);
  digitalWrite(h, LOW);
  delay(500);

  //TRES
  digitalWrite(a, LOW);
  digitalWrite(b, LOW);
  digitalWrite(c, LOW);
  digitalWrite(d, LOW);
  digitalWrite(e, HIGH);
  digitalWrite(f, HIGH);
  digitalWrite(g, LOW);
  digitalWrite(h, LOW);
  delay(500);
```

```
//CUATRO
  digitalWrite(a, HIGH);
  digitalWrite(b, LOW);
  digitalWrite(c, LOW);
  digitalWrite(d, HIGH);
  digitalWrite(e, HIGH);
  digitalWrite(f, LOW);
  digitalWrite(g, LOW);
  digitalWrite(h, LOW);
  delay(500);

  //CINCO
  digitalWrite(a, LOW);
  digitalWrite(b, HIGH);
  digitalWrite(c, LOW);
  digitalWrite(d, LOW);
  digitalWrite(e, HIGH);
  digitalWrite(f, LOW);
  digitalWrite(g, LOW);
  digitalWrite(h, LOW);
  delay(500);

  //SEIS
  digitalWrite(a, LOW);
  digitalWrite(b, HIGH);
  digitalWrite(c, LOW);
  digitalWrite(d, LOW);
  digitalWrite(e, LOW);
  digitalWrite(f, LOW);
  digitalWrite(g, LOW);
  digitalWrite(h, LOW);
  delay(500);

  //SIETE
  digitalWrite(a, LOW);
```

```
digitalWrite(b, LOW);  
digitalWrite(c, LOW);  
digitalWrite(d, HIGH);  
digitalWrite(e, HIGH);  
digitalWrite(f, HIGH);  
digitalWrite(g, HIGH);  
digitalWrite(h, LOW);  
delay(500);
```

```
//OCHO
```

```
digitalWrite(a, LOW);  
digitalWrite(b, LOW);  
digitalWrite(c, LOW);  
digitalWrite(d, LOW);  
digitalWrite(e, LOW);  
digitalWrite(f, LOW);  
digitalWrite(g, LOW);  
digitalWrite(h, LOW);  
delay(500);
```

```
//NUEVE
```

```
digitalWrite(a, LOW);  
digitalWrite(b, LOW);  
digitalWrite(c, LOW);  
digitalWrite(d, LOW);  
digitalWrite(e, HIGH);  
digitalWrite(f, LOW);  
digitalWrite(g, LOW);  
digitalWrite(h, LOW);  
delay(500);
```

```
}
```

CÓDIGO – PROYECTO DISPLAY
7 SEGMENTOS – 02
(CONTADOR DE 0 A 9 Y
BOTONES DE CONTROL)

const int a=2;	contador = contador + 1;	digitalWrite(b, LOW);
const int b=3;	}	digitalWrite(c, HIGH);
const int c=4;	delay(1);	digitalWrite(d, LOW);
const int d=5;	}	digitalWrite(e, LOW);
const int e=6;	while (contador <	digitalWrite(f, HIGH);
const int f=7;	timeAntirebote);	digitalWrite(g, LOW);
const int g=8;	return estado;	digitalWrite(h, LOW);
const int h=9;	}	break;
const int boton_ACEND=11;	void actualizaNUMER() {	case 3:
const int boton_DECEN=12;	switch(cuenta) {	digitalWrite(a, LOW);
		digitalWrite(b, LOW);
const int timeAntirebote=10;	case 0:	digitalWrite(c, LOW);
int cuenta=0;	digitalWrite(a, LOW);	digitalWrite(d, LOW);
int estadoBOTON_ACEND;	digitalWrite(b, LOW);	digitalWrite(e, HIGH);
int	digitalWrite(c, LOW);	digitalWrite(f, HIGH);
estadoBOTON_ANTES_ACEND;	digitalWrite(d, LOW);	digitalWrite(g, LOW);
int estadoBOTON_DECEN;	digitalWrite(e, LOW);	digitalWrite(h, LOW);
int	digitalWrite(f, LOW);	break;
estadoBOTON_ANTES_DECEN;	digitalWrite(g, HIGH);	
	digitalWrite(h, LOW);	case 4:
boolean antirrebote(int pin) {	break;	digitalWrite(a, HIGH);
int contador=0;	case 1:	digitalWrite(b, LOW);
boolean estado;	digitalWrite(a, HIGH);	digitalWrite(c, LOW);
boolean estado_ANTES;	digitalWrite(b, LOW);	digitalWrite(d, HIGH);
	digitalWrite(c, LOW);	digitalWrite(e, HIGH);
do {	digitalWrite(d, HIGH);	digitalWrite(f, LOW);
estado = digitalRead(pin);	digitalWrite(e, HIGH);	digitalWrite(g, LOW);
if(estado != estado_ANTES) {	digitalWrite(f, HIGH);	digitalWrite(h, LOW);
contador=0;	digitalWrite(g, HIGH);	break;
estado_ANTES = estado;	digitalWrite(h, LOW);	
}	break;	case 5:
else {	case 2:	digitalWrite(a, LOW);
	digitalWrite(a, LOW);	digitalWrite(b, HIGH);
		digitalWrite(c, LOW);

```

digitalWrite(d, LOW);
digitalWrite(e, HIGH);
digitalWrite(f, LOW);
digitalWrite(g, LOW);
digitalWrite(h, LOW);
break;

```

```

case 6:
    digitalWrite(a, LOW);
    digitalWrite(b, HIGH);
    digitalWrite(c, LOW);
    digitalWrite(d, LOW);
    digitalWrite(e, LOW);
    digitalWrite(f, LOW);
    digitalWrite(g, LOW);
    digitalWrite(h, LOW);
break;

```

```

case 7:
    digitalWrite(a, LOW);
    digitalWrite(b, LOW);
    digitalWrite(c, LOW);
    digitalWrite(d, HIGH);
    digitalWrite(e, HIGH);
    digitalWrite(f, HIGH);
    digitalWrite(g, HIGH);
    digitalWrite(h, LOW);
break;

```

```

case 8:
    digitalWrite(a, LOW);
    digitalWrite(b, LOW);
    digitalWrite(c, LOW);
    digitalWrite(d, LOW);
    digitalWrite(e, LOW);

```

```

digitalWrite(f, LOW);
digitalWrite(g, LOW);
digitalWrite(h, LOW);
break;

```

```

case 9:
    digitalWrite(a, LOW);
    digitalWrite(b, LOW);
    digitalWrite(c, LOW);
    digitalWrite(d, LOW);
    digitalWrite(e, HIGH);
    digitalWrite(f, LOW);
    digitalWrite(g, LOW);
    digitalWrite(h, LOW);
break;
}
}

```

```

void setup() {
    pinMode(a, OUTPUT);
    pinMode(b, OUTPUT);
    pinMode(c, OUTPUT);
    pinMode(d, OUTPUT);
    pinMode(e, OUTPUT);
    pinMode(f, OUTPUT);
    pinMode(g, OUTPUT);
    pinMode(h, OUTPUT);
    pinMode(boton_ACEND,
INPUT);
    pinMode(boton_DECEN,
INPUT);
}

```

```

void loop() {

```

```

    estadoBOTON_ACEND =
digitalRead (boton_ACEND);

    if(estadoBOTON_ACEND !=
estadoBOTON_ANTES_ACEND) {

        if(antirrebote(boton_ACEND))
        {
            cuenta++;

            if(cuenta > 9) {
                cuenta = 9;
            }
        }

        estadoBOTON_ANTES_ACEND
= estadoBOTON_ACEND;

        estadoBOTON_DECEN =
digitalRead (boton_DECEN);

        if(estadoBOTON_DECEN !=
estadoBOTON_ANTES_DECEN) {

            if(antirrebote(boton_DECEN))
            {
                cuenta--;

                if(cuenta < 0) {
                    cuenta = 0;
                }
            }

            estadoBOTON_ANTES_DECEN
= estadoBOTON_DECEN;

            actualizaNUMER();

        }
    }

```