

UNIVERSIDAD DEL
SURESTE
CAMPUS S.C.L.C.C.
CHIAPAS

Actividad

Display de 7 segmentos completo

Electrónica

Ing. Sistemas computacionales.

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6º cuatrimestre.

San Cristóbal de las casas, Chiapas; a 11 de junio de 2020.

```
Display_Basico_de_7_Segmentos_TODOS
//1.- Declarar los pines digitales de la placa a utilizar pra cada segmento
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;

//funcions para dibujar los numeros del 0 al 9 en el display de 7 segmentos
//funcion para el 0
void cero () {
  digitalWrite(a, HIGH);
  digitalWrite(b, HIGH);
  digitalWrite(c, HIGH);
  digitalWrite(d, HIGH);
  digitalWrite(e, HIGH);
  digitalWrite(f, HIGH);
  digitalWrite(g, LOW);
  delay(750);
}

//funcion para el 1
void uno () {
  digitalWrite(a, LOW);
  digitalWrite(b, HIGH);
  digitalWrite(c, HIGH);
  digitalWrite(d, LOW);
  digitalWrite(e, LOW);
}

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```

```
Display_Basico_de_7_Segmentos_TODOS
//funcion para el 1
void uno () {
  digitalWrite(a, LOW);
  digitalWrite(b, HIGH);
  digitalWrite(c, HIGH);
  digitalWrite(d, LOW);
  digitalWrite(e, LOW);
  digitalWrite(f, LOW);
  digitalWrite(g, LOW);
  delay(750);
}

//funcion para el 2
void dos () {
  digitalWrite(a, HIGH);
  digitalWrite(b, HIGH);
  digitalWrite(c, LOW);
  digitalWrite(d, HIGH);
  digitalWrite(e, HIGH);
  digitalWrite(f, LOW);
  digitalWrite(g, HIGH);
  delay(750);

  digitalWrite(a, HIGH);
  digitalWrite(b, HIGH);
  digitalWrite(c, LOW);
  digitalWrite(d, HIGH);
  digitalWrite(e, HIGH);
  digitalWrite(f, LOW);
}

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```

```
Display_Basico_de_7_Segmentos_TODOS $
// funcion para el 3
void tres () {
  digitalWrite(a, HIGH);
  digitalWrite(b, HIGH);
  digitalWrite(c, HIGH);
  digitalWrite(d, HIGH);
  digitalWrite(e, LOW);
  digitalWrite(f, LOW);
  digitalWrite(g, HIGH);
  delay(750);

  digitalWrite(a, HIGH);
  digitalWrite(b, HIGH);
  digitalWrite(c, HIGH);
  digitalWrite(d, HIGH);
  digitalWrite(e, LOW);
  digitalWrite(f, LOW);
  digitalWrite(g, HIGH);
  delay(750);

  digitalWrite(a, HIGH);
  digitalWrite(b, HIGH);
  digitalWrite(c, HIGH);
  digitalWrite(d, HIGH);
  digitalWrite(e, LOW);
  digitalWrite(f, LOW);
  digitalWrite(g, HIGH);
  delay(750);
}

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```

```
Display_Basico_de_7_Segmentos_TODOS $
//funcion para el 4
void cuatro () {
  digitalWrite(a, LOW);
  digitalWrite(b, HIGH);
  digitalWrite(c, HIGH);
  digitalWrite(d, LOW);
  digitalWrite(e, LOW);
  digitalWrite(f, HIGH);
  digitalWrite(g, HIGH);
  delay(750);

  digitalWrite(a, LOW);
  digitalWrite(b, HIGH);
  digitalWrite(c, HIGH);
  digitalWrite(d, LOW);
  digitalWrite(e, LOW);
  digitalWrite(f, HIGH);
  digitalWrite(g, HIGH);
  delay(750);

  digitalWrite(a, LOW);
  digitalWrite(b, HIGH);
  digitalWrite(c, HIGH);
  digitalWrite(d, LOW);
  digitalWrite(e, LOW);
  digitalWrite(f, HIGH);
  digitalWrite(g, HIGH);
  delay(750);
}

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```

```
Display_Basico_de_7_Segmentos_TODOS $  
//funcion para el 5  
void cinco () {  
  digitalWrite (a, HIGH);  
  digitalWrite (b, LOW);  
  digitalWrite (c, HIGH);  
  digitalWrite (d, HIGH);  
  digitalWrite (e, LOW);  
  digitalWrite (f, HIGH);  
  digitalWrite (g, HIGH);  
  delay (750);  
  
  digitalWrite (a, HIGH);  
  digitalWrite (b, LOW);  
  digitalWrite (c, HIGH);  
  digitalWrite (d, HIGH);  
  digitalWrite (e, LOW);  
  digitalWrite (f, HIGH);  
  digitalWrite (g, HIGH);  
  delay (750);  
  
  digitalWrite (a, HIGH);  
  digitalWrite (b, LOW);  
  digitalWrite (c, HIGH);  
  digitalWrite (d, HIGH);  
  digitalWrite (e, LOW);  
  digitalWrite (f, HIGH);  
  digitalWrite (g, HIGH);  
  delay (750);  
}
```

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```
Display_Basico_de_7_Segmentos_TODOS $  
//funcion para el 9  
void nueve () {  
  digitalWrite (a, HIGH);  
  digitalWrite (b, HIGH);  
  digitalWrite (c, HIGH);  
  digitalWrite (d, LOW);  
  digitalWrite (e, LOW);  
  digitalWrite (f, HIGH);  
  digitalWrite (g, HIGH);  
  delay (750);  
  
  digitalWrite (a, HIGH);  
  digitalWrite (b, HIGH);  
  digitalWrite (c, HIGH);  
  digitalWrite (d, LOW);  
  digitalWrite (e, LOW);  
  digitalWrite (f, HIGH);  
  digitalWrite (g, HIGH);  
  delay (750);  
  
  digitalWrite (a, HIGH);  
  digitalWrite (b, HIGH);  
  digitalWrite (c, HIGH);  
  digitalWrite (d, LOW);  
  digitalWrite (e, LOW);  
  digitalWrite (f, HIGH);  
  digitalWrite (g, HIGH);  
  delay (750);  
}
```

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```
Display_Basico_de_7_Segmentos_TODOS $
void setup() {
  // put your setup code here, to run once:
  //2.- definir el pin del segmento como salida a la placa
  pinMode(a, OUTPUT);
  pinMode(b, OUTPUT);
  pinMode(c, OUTPUT);
  pinMode(d, OUTPUT);
  pinMode(e, OUTPUT);
  pinMode(f, OUTPUT);
  pinMode(g, OUTPUT);
}

void loop() {
  // 3.- Encender el segmento necesario

  cero();
  uno();
  dos();
  tres();
  cuatro();
  cinco();
  seis();
  siete();
  ocho();
  nueve();
}

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```