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// the setup function runs once when you press reset or power the board

void setup() {

// initialize digital pin LED\_BUILTIN as an output.

pinMode(13, OUTPUT);

}

// the loop function runs over and over again forever

void loop() {

digitalWrite(13, HIGH); // turn the LED on (HIGH is the voltage level)

delay(1000); // wait for a second

digitalWrite(13, LOW); // turn the LED off by making the voltage LOW

delay(1000); // wait for a second

}

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void setup()

{

Serial.begin(9600);//initialising the serial moniter with baud rate 9600 we can use other baud rate also.

}

void loop()

{

int LDR;//initialising the variable for LDR data

LDR = analogRead(A0);//reading analog values from the A0 port and sending nto LDR

Serial.println(LDR);//Displying the values in the serial moniter

delay(1000);//delay of 1sec

}

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/\*pin initialisation\*/

int A = 2;

int B = 3;

int C = 4;

int D = 5;

int E = 6;

int F = 7;

int G = 8;

int Button = 12;

int state = 0;

int Button1 = 11;

int state1 = 0;

#define ON LOW

#define OFF HIGH

void setup() {

// put your setup code here, to run once:

pinMode(A,OUTPUT);

pinMode(B,OUTPUT);

pinMode(C,OUTPUT);

pinMode(D,OUTPUT);

pinMode(E,OUTPUT);

pinMode(F,OUTPUT);

pinMode(G,OUTPUT);

pinMode(Button,INPUT);

Serial.begin(9600);

}

void loop() {

// put your main code here, to run repeatedly:

state = digitalRead(Button);

Serial.println( state );

digitalWrite(A, OFF);

digitalWrite(B, OFF);

digitalWrite(C, OFF);

digitalWrite(D, OFF);

digitalWrite(E, OFF);

digitalWrite(F, OFF);

digitalWrite(G, OFF);

if(state == HIGH) //if first button pressed then count from 0-9

{

digitalWrite(A, ON);

digitalWrite(B, ON);

digitalWrite(C, ON);

digitalWrite(D, ON);

digitalWrite(E, ON);

digitalWrite(F, ON);

digitalWrite(G, OFF);

delay(1000);

digitalWrite(A, OFF);

digitalWrite(B, ON);

digitalWrite(C, ON);

digitalWrite(D, OFF);

digitalWrite(E, OFF);

digitalWrite(F, OFF);

digitalWrite(G, OFF);

delay(1000);

digitalWrite(A, ON);

digitalWrite(B, ON);

digitalWrite(C, OFF);

digitalWrite(D, ON);

digitalWrite(E, ON);

digitalWrite(F, OFF);

digitalWrite(G, ON);

delay(1000);

digitalWrite(A, ON);

digitalWrite(B, ON);

digitalWrite(C, ON);

digitalWrite(D, ON);

digitalWrite(E, OFF);

digitalWrite(F, OFF);

digitalWrite(G, ON);

delay(1000);

digitalWrite(A, OFF);

digitalWrite(B, ON);

digitalWrite(C, ON);

digitalWrite(D, OFF);

digitalWrite(E, OFF);

digitalWrite(F, ON);

digitalWrite(G, ON);

delay(1000);

digitalWrite(A, ON);

digitalWrite(B, OFF);

digitalWrite(C, ON);

digitalWrite(D, ON);

digitalWrite(E, OFF);

digitalWrite(F, ON);

digitalWrite(G, ON);

delay(1000);

digitalWrite(A, ON);

digitalWrite(B, OFF);

digitalWrite(C, ON);

digitalWrite(D, ON);

digitalWrite(E, ON);

digitalWrite(F, ON);

digitalWrite(G, ON);

delay(1000);

digitalWrite(A, ON);

digitalWrite(B, ON);

digitalWrite(C, ON);

digitalWrite(D, OFF);

digitalWrite(E, OFF);

digitalWrite(F, OFF);

digitalWrite(G, OFF);

delay(1000);

digitalWrite(A, ON);

digitalWrite(B, ON);

digitalWrite(C, ON);

digitalWrite(D, ON);

digitalWrite(E, ON);

digitalWrite(F, ON);

digitalWrite(G, ON);

delay(1000);

digitalWrite(A, ON);

digitalWrite(B, ON);

digitalWrite(C, ON);

digitalWrite(D, ON);

digitalWrite(E, OFF);

digitalWrite(F, ON);

digitalWrite(G, ON);

delay(1000);

}

state1 = digitalRead(Button1);

Serial.println( state1 );

if(state1 == HIGH)//if second button pressed then count from 0-9

{

digitalWrite(A, ON);

digitalWrite(B, ON);

digitalWrite(C, ON);

digitalWrite(D, ON);

digitalWrite(E, OFF);

digitalWrite(F, ON);

digitalWrite(G, ON);

delay(1000);

digitalWrite(A, ON);

digitalWrite(B, ON);

digitalWrite(C, ON);

digitalWrite(D, ON);

digitalWrite(E, ON);

digitalWrite(F, ON);

digitalWrite(G, ON);

delay(1000);

digitalWrite(A, ON);

digitalWrite(B, ON);

digitalWrite(C, ON);

digitalWrite(D, OFF);

digitalWrite(E, OFF);

digitalWrite(F, OFF);

digitalWrite(G, OFF);

delay(1000);

digitalWrite(A, ON);

digitalWrite(B, OFF);

digitalWrite(C, ON);

digitalWrite(D, ON);

digitalWrite(E, ON);

digitalWrite(F, ON);

digitalWrite(G, ON);

delay(1000);

digitalWrite(A, ON);

digitalWrite(B, OFF);

digitalWrite(C, ON);

digitalWrite(D, ON);

digitalWrite(E, OFF);

digitalWrite(F, ON);

digitalWrite(G, ON);

delay(1000);

digitalWrite(A, OFF);

digitalWrite(B, ON);

digitalWrite(C, ON);

digitalWrite(D, OFF);

digitalWrite(E, OFF);

digitalWrite(F, ON);

digitalWrite(G, ON);

delay(1000);

digitalWrite(A, ON);

digitalWrite(B, ON);

digitalWrite(C, ON);

digitalWrite(D, ON);

digitalWrite(E, OFF);

digitalWrite(F, OFF);

digitalWrite(G, ON);

delay(1000);

digitalWrite(A, ON);

digitalWrite(B, ON);

digitalWrite(C, OFF);

digitalWrite(D, ON);

digitalWrite(E, ON);

digitalWrite(F, OFF);

digitalWrite(G, ON);

delay(1000);

digitalWrite(A, OFF);

digitalWrite(B, ON);

digitalWrite(C, ON);

digitalWrite(D, OFF);

digitalWrite(E, OFF);

digitalWrite(F, OFF);

digitalWrite(G, OFF);

delay(1000);

digitalWrite(A, ON);

digitalWrite(B, ON);

digitalWrite(C, ON);

digitalWrite(D, ON);

digitalWrite(E, ON);

digitalWrite(F, ON);

digitalWrite(G, OFF);

delay(1000);

}

}

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

int val;

int tempPin = 1;

void setup()

{

Serial.begin(9600);

}

void loop()

{

val = analogRead(tempPin);

float mv = ( val/1024.0)\*5000;

float cel = mv/10;

float farh = (cel\*9)/5 + 32;

Serial.print("TEMPRATURE = ");

Serial.print(cel);

Serial.print("\*C");

Serial.println();

delay(1000);

/\* uncomment this to get temperature in farenhite

Serial.print("TEMPRATURE = ");

Serial.print(farh);

Serial.print("\*F");

Serial.println();

\*/

}

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Exam code

int A = 2;

int B = 3;

int C = 4;

int D = 5;

int E = 6;

int F = 7;

int G = 8;

#define ON LOW

#define OFF HIGH

void setup() {

pinMode(A,OUTPUT);

pinMode(B,OUTPUT);

pinMode(C,OUTPUT);

pinMode(D,OUTPUT);

pinMode(E,OUTPUT);

pinMode(F,OUTPUT);

pinMode(G,OUTPUT);

Serial.begin(9600);

// put your setup code here, to run once:

}

void loop() {

// put your main code here, to run repeatedly:

if(Serial.available() > 0)

{

char data = Serial.read();

Serial.println(data);

if(data == '0')

{

digitalWrite(A,ON);

digitalWrite(B,ON);

digitalWrite(C,ON);

digitalWrite(D,ON);

digitalWrite(E,ON);

digitalWrite(F,ON);

digitalWrite(G,OFF);

delay(1000);

digitalWrite(A,OFF);

digitalWrite(B,ON);

digitalWrite(C,ON);

digitalWrite(D,OFF);

digitalWrite(E,OFF);

digitalWrite(F,OFF);

digitalWrite(G,OFF);

delay(1000);

digitalWrite(A,ON);

digitalWrite(B,ON);

digitalWrite(C,OFF);

digitalWrite(D,ON);

digitalWrite(E,ON);

digitalWrite(F,OFF);

digitalWrite(G,ON);

delay(1000);

digitalWrite(A,ON);

digitalWrite(B,ON);

digitalWrite(C,ON);

digitalWrite(D,ON);

digitalWrite(E,OFF);

digitalWrite(F,OFF);

digitalWrite(G,ON);

delay(1000);

digitalWrite(A,OFF);

digitalWrite(B,ON);

digitalWrite(C,ON);

digitalWrite(D,OFF);

digitalWrite(E,OFF);

digitalWrite(F,ON);

digitalWrite(G,ON);

delay(1000);

digitalWrite(A,ON);

digitalWrite(B,OFF);

digitalWrite(C,ON);

digitalWrite(D,ON);

digitalWrite(E,OFF);

digitalWrite(F,ON);

digitalWrite(G,ON);

delay(1000);

digitalWrite(A,ON);

digitalWrite(B,OFF);

digitalWrite(C,ON);

digitalWrite(D,ON);

digitalWrite(E,ON);

digitalWrite(F,ON);

digitalWrite(G,ON);

delay(1000);

digitalWrite(A,ON);

digitalWrite(B,ON);

digitalWrite(C,ON);

digitalWrite(D,OFF);

digitalWrite(E,OFF);

digitalWrite(F,OFF);

digitalWrite(G,OFF);

delay(1000);

digitalWrite(A,ON);

digitalWrite(B,ON);

digitalWrite(C,ON);

digitalWrite(D,ON);

digitalWrite(E,ON);

digitalWrite(F,ON);

digitalWrite(G,ON);

delay(1000);

digitalWrite(A,ON);

digitalWrite(B,ON);

digitalWrite(C,ON);

digitalWrite(D,ON);

digitalWrite(E,OFF);

digitalWrite(F,ON);

digitalWrite(G,ON);

delay(1000);

}

else if (data == '1')

{

int val;

val = analogRead(A1);

float cel = (val/1024.0)\*5000/10;

Serial.print("temperature ");

Serial.print(cel);

Serial.println(" degree celcius");

delay(1000);

}

}

}