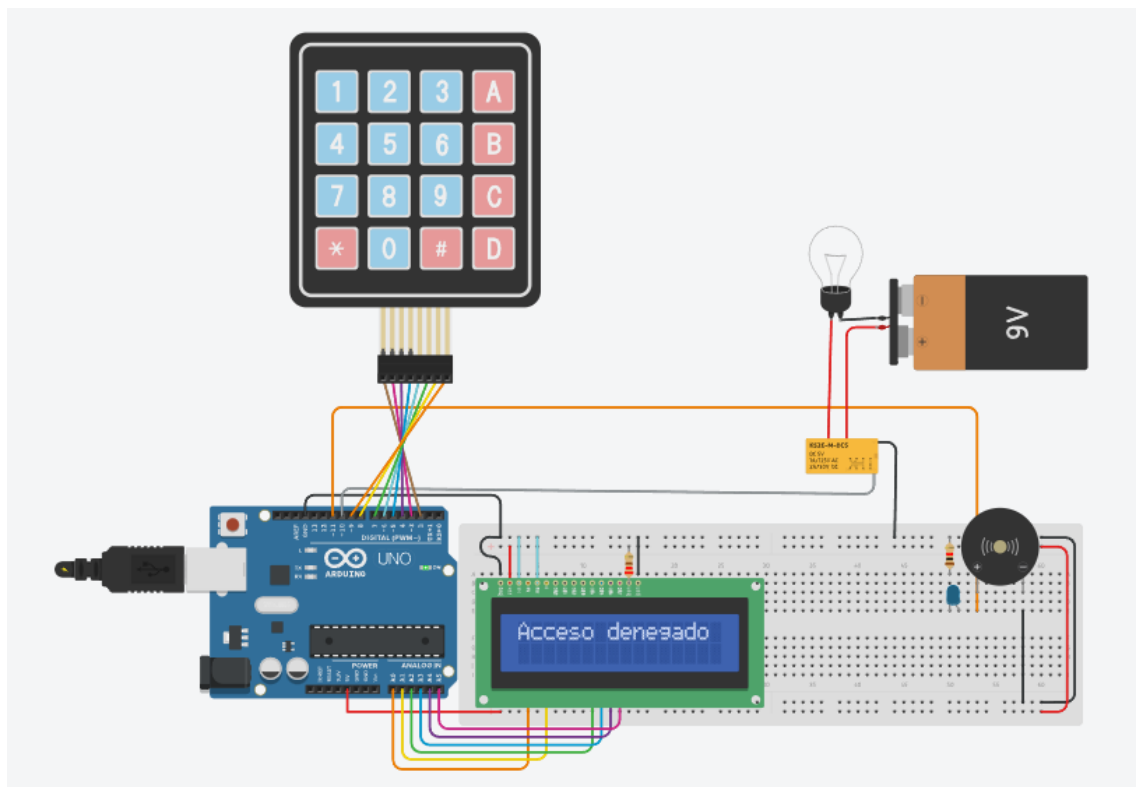
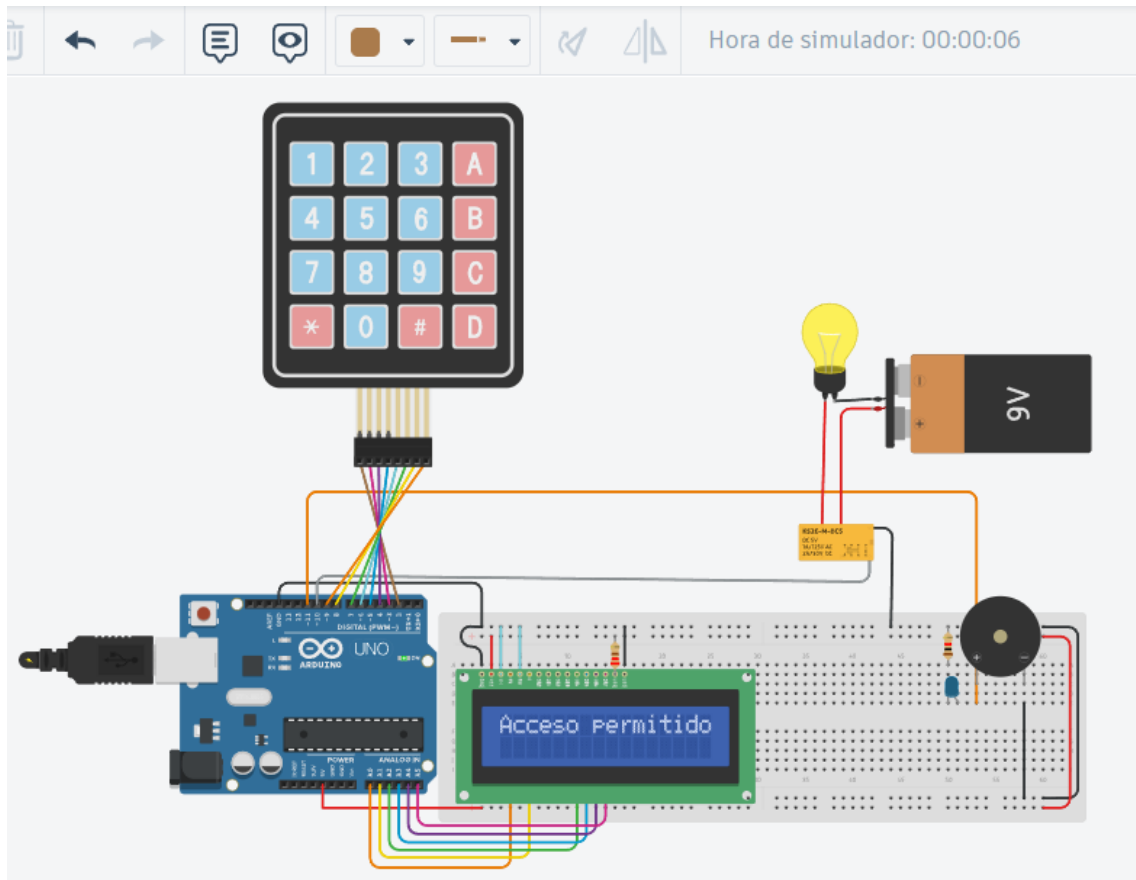
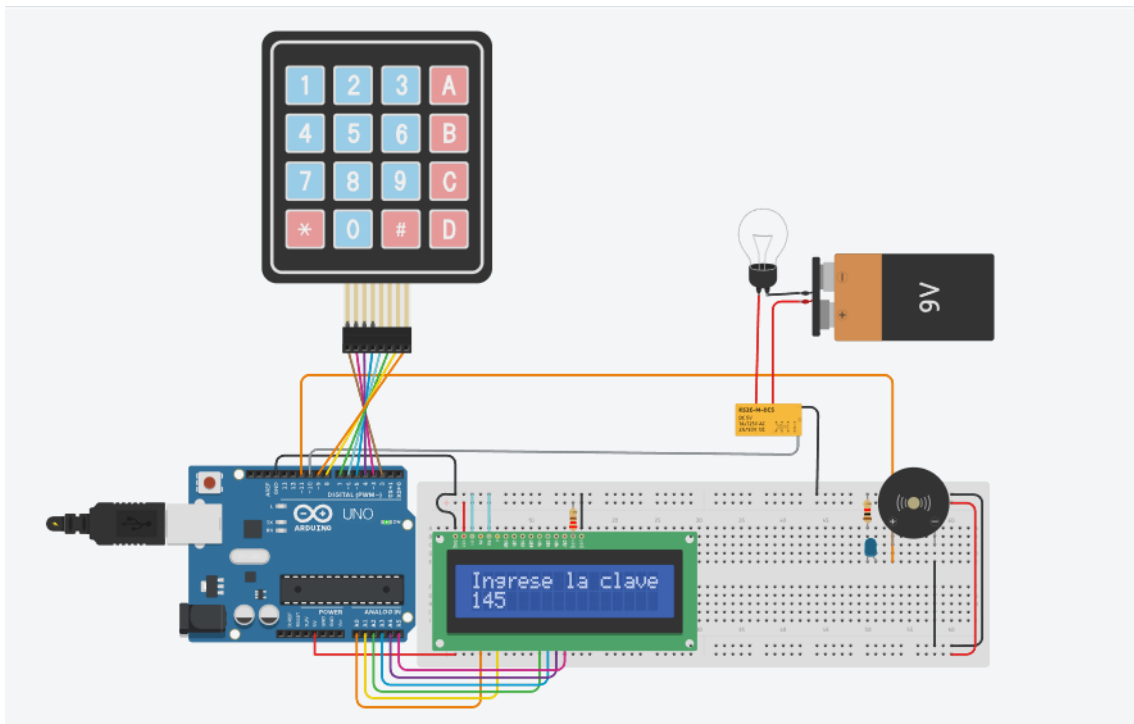


Ivan_Vera_05_Tarea_Arduino





```
1  #include <Keypad.h>
2  const byte filas = 4;
3  const byte columnas = 4;
4  char claves[filas][columnas] = {
5      {'1','2','3','A'},
6      {'4','5','6','B'},
7      {'7','8','9','C'},
8      {'*','0','#','D'}
9  };
10 byte pinFilas[filas] = {2,3,4,5};
11 byte pinColumnas[columnas] = {6,7,8,9};
12
13 Keypad keypad = Keypad(makeKeymap(claves), pinFilas, pinColumnas, filas);
14
15 #include <LiquidCrystal.h>
16 LiquidCrystal lcd (A0,A1,A2,A3,A4,A5);
17
18 // C++ code
19 //
20 int rele = 10;
21 int alert = 11;
22
23 const int longClave = 4;
24 char claveIngresada[longClave + 1];
25 int repetirIngreso = 0;
26 const char claveLocal[] = "14*D";
27
```

```

28 void setup()
29 {
30     Serial.begin(9600);
31     lcd.begin(16,2);
32     pinMode(rele, OUTPUT);
33     digitalWrite(rele, HIGH);
34     pinMode(alert, OUTPUT);
35 }
36
37 void loop()
38 {
39     lcd.setCursor(0,0);
40     lcd.print("Ingreso la clave");
41
42     while (repetirIngreso < longClave){
43         char clave = keypad.getKey();
44
45         if(clave != NO_KEY){
46             lcd.setCursor(repetirIngreso,1);
47             lcd.print(clave);
48             claveIngresada[repetirIngreso] = clave;
49             repetirIngreso++;
50         };
51     };
52
53
54     delay(500);
55     lcd.clear();
56

```

```

57     // Comparar la clave ingresada con la clave correcta
58     if (strcmp(claveIngresada, claveLocal) == 0) {
59         lcd.print("Acceso permitido");
60         digitalWrite(rele, LOW);
61         digitalWrite(alert, LOW);
62         delay(500);
63     } else {
64         lcd.print("Acceso denegado");
65         digitalWrite(rele, HIGH);
66         digitalWrite(alert, HIGH);
67         delay(500);
68     }
69
70     delay(2000); // Mostrar resultado por un tiempo
71     lcd.clear();
72     repetirIngreso = 0;
73 }

```