LCD Display - Tinkercad Circuits Version


```
71  {
72      //Set up the LCDs number of columns and rows:
73      lcd.begin(16, 2);
74      // Print a message to the LCD.
75      lcd.print("Jeremy's Display");
76
77      //Make progress characters
78      lcd.createChar(0, p20);
79      lcd.createChar(1, p40);
80      lcd.createChar(2, p60);
81      lcd.createChar(3, p80);
82      lcd.createChar(4, p100);
83  }
84
85  void loop()
86  {
87      //Move cursor to second line
88      lcd.setCursor(0,1);
89      //Clear the line each time it reaches the end
90      //with 16 " " (spaces)
91      lcd.print("                ");
92
93      //Iterate through each character on the second line
94      for (int i = 0; i<16; i++)
95      {
96          //Iterate through each progress value for each character
97          for (int j=0; j<5; j++)
98          {
99              lcd.setCursor(i, 1); //Move the cursor to this location
100             lcd.write(j);        //update progress bar
101             delay(100);          //wait
102         }
103     }
104 }
```

Serial Monitor

U2_5V

U2

VIN	RX
5V	TX
3.3V	D2
	D3
AREF	D4
IOREF	D5
RES	D6
	D7
A0	D8
A1	D9
A2	D10
A3	D11
A4	D12
A5	D13
	SDA
GND	SCL

Arduino
UNO

RPOT1
250k

U3

DB0	VCC
DB1	V0
DB2	LED+
DB3	LED-
DB4	RS
DB5	RW
DB6	ENA
DB7	GND

LCD
16x2

R1
220

U2_GND

Title: Copy of (in-class) Arduino - LCD Display - starter

Date: 11/10/2025, 2:30:01 PM   Sheet: 1/1