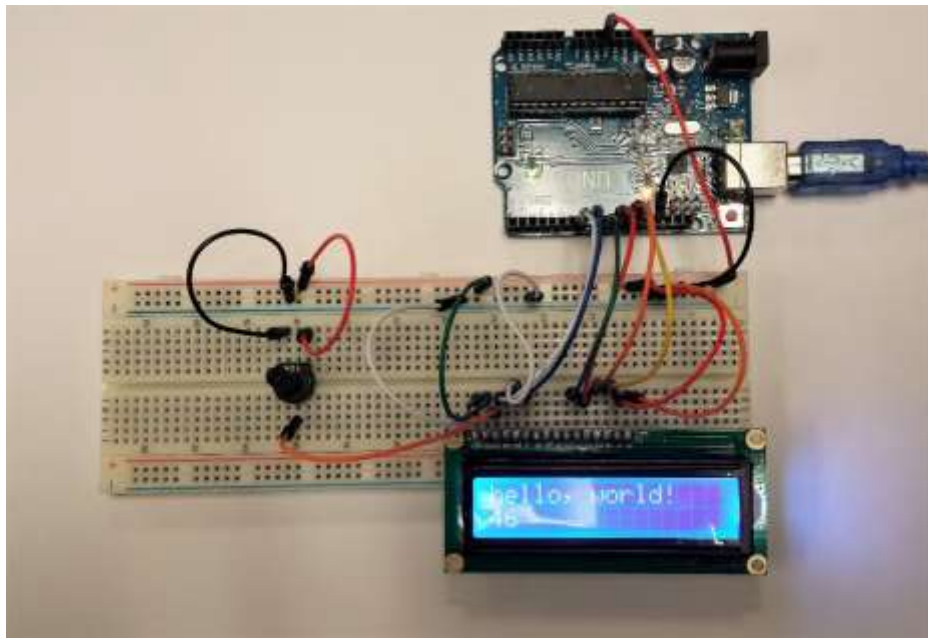


LCD Display with Arduino

Components:

1. Arduino Uno Board
2. Breadboard
3. 16 X 2 LCD Display
4. 10k Potentiometer
5. Jumper wires

Setting:



Steps:

The LCD wiring:

1. LCD VSS pin to ground
2. LCD VDD pin to 5V
3. LCD VO pin (Third Pin) to Center Pin Potentiometer
4. LCD RS pin to digital pin 7
5. LCD R/W pin to ground
6. LCD Enable pin to digital pin 8
7. LCD D4 pin to digital pin 9
8. LCD D5 pin to digital pin 10
9. LCD D6 pin to digital pin 11
10. LCD D7 pin to digital pin 12
11. LCD A pin to 5V
12. LCD K pin to GND

10K resistor wiring:

1. Outside Pins go to +5V and GND
2. Center Pin to LCD VO pin (Third Pin)

Code:

```
/*
```

```
Using a 16x2 LCD Display with Arduino
```

```
This sketch prints "Hello World!" to the LCD
```

```
and shows the time.
```

```
*/
```

```
// include the library code:
```

```
#include <LiquidCrystal.h>
```

```
// initialize the library with the numbers of the interface pins
```

```
LiquidCrystal lcd(7, 8, 9, 10, 11, 12);
```

```
void setup() {
```

```
    // set up the LCD's number of columns and rows:
```

```
lcd.begin(16, 2);  
  
// Print a message to the LCD.  
lcd.print("hello, world!");  
}  
  
void loop() {  
  // set the cursor to column 0, line 1  
  // (note: line 1 is the second row, since counting begins with 0):  
  lcd.setCursor(0, 1);  
  // print the number of seconds since reset:  
  lcd.print(millis() / 1000);  
}
```