

# Showing Words on an LCD

1. Create the circuit shown on last page
2. Open the Arduino IDE program on your computer
3. Copy and paste the code below into the Arduino IDE
4. Upload code to arduino
5. The LCD screen should now show text



## Extensions

1. Change code to some text you want it to show
2. Add a push button and change some code to change the text when you press the code.

# Program Code (Copy and Paste the following)

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

```
LiquidCrystal lcd(12, 11, 10, 5, 4, 3, 2);
```

```
int backLight = 13; // pin 13 will control the backlight
```

```
void setup()
```

```
{
```

```
  pinMode(backLight, OUTPUT);
```

```
  digitalWrite(backLight, HIGH); // turn backlight on. Replace 'HIGH' with 'LOW' to turn it off.
```

```
  lcd.begin(20,4); // columns, rows. use 16,2 for a 16x2 LCD, etc.
```

```
}
```

```
void loop()
```

```
{
```

```
  lcd.clear(); // start with a blank screen
```

```
  lcd.setCursor(0,0); // set cursor to column 0, row 0 (the first row)
```

```
  lcd.print("Hello, World");// change this text to whatever you like. keep it clean.
```

```
  lcd.setCursor(0,1); // set cursor to column 0, row 1
```

```
  lcd.print("Your Text Here");
```

```
  lcd.setCursor(0,2); // set cursor to column 0, row 2
```

```
  lcd.print("Row 3");
```

```
  lcd.setCursor(0,3); // set cursor to column 0, row 3
```

```
  lcd.print("Row 4");
```

```
}
```

# Circuit Diagram

