



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

```
LiquidCrystal lcd(12, 11, 5, 4, 3, 2); // setup LCD pin
```

```
int analogPin = A0;
```

```
int analogRead_value = 0;
```

```
void setup()
```

```
{
```

```
  lcd.begin(16, 2);
```

```
  Serial.begin(9600);
```

```
}
```

```
void loop()
```

```
{
```

```
  analogRead_value = analogRead(analogPin);
```

```
  // map 0-5V to 0-30V
```

```
float scale_voltage = map(analogRead_value,0,1023,0,3000);
```

```
float Final_voltage = scale_voltage/100;
```

```
lcd.setCursor(0, 0);
```

```
lcd.print("  X MAKER");
```

```
lcd.setCursor(0, 1);
```

```
lcd.print("VOLTAGE: ");
```

```
lcd.print(Final_voltage);
```

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

```
lcd.setCursor(15, 1);
```

```
lcd.print("V");
```

```
Serial.print(Final_voltage); // for using with serial ploter
```

```
Serial.print(" ");
```

```
Serial.print(0.00);
```

```
Serial.print(" ");
```

```
Serial.println(30.00);
```

```
delay(250);
```

```
//lcd.clear();
```

```
}
```

```
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```

```
// Follwing us at: https://www.youtube.com/watch?v=QOdq2mdxB7M
```