

Scroll Your Name on LCD

Aim: - The aim of this project is to Scroll your name on LCD

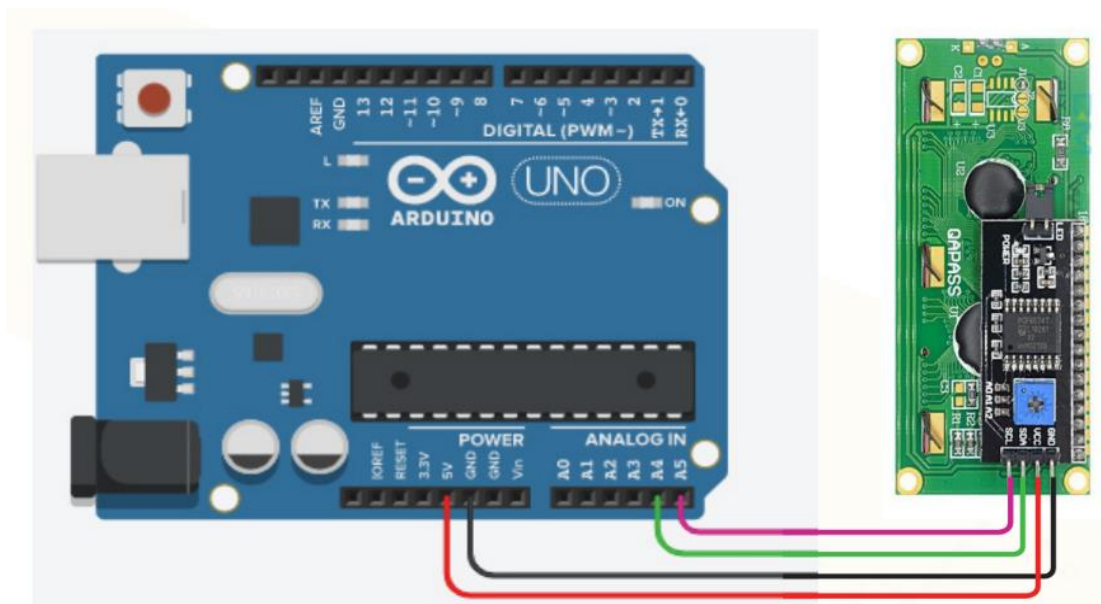


Components Required

Sl. No	Items	Quantity
1	Jumper wire	4
2	Arduino uno	1
3	Arduino cable	1
4	I2C based LCD	1
6	Battery (9V)	1
7	Battery cap (DC jack)	1



Circuit Diagram



Procedure

- Take breadboard and arduino board.
- Take LCD and four jumper wires.
- Make the connections as follows

LCD	Arduino
GND	GND
VCC	5V
SDA	A4
SCL	A5



Procedure to upload the code

- Once connections are done then connect an arduino board to your laptop/computer system using an arduino cable.

- Open arduino IDE.
- Open program file in arduino IDE. Go to

File->Open>Download>select scroll_your_ name_from_left_to_right_on_LCD.

- Click on the upload option.

Program

```
#include <LCD_I2C.h>
```

```
LCD_I2C lcd(0x27); // Default address of most PCF8574 modules, change according
```

```
void setup()
```

```
{
```

```
  lcd.begin(); // If you are using more I2C devices using the Wire library use lcd.begin(false)
```

```
  // this stop the library(LCD_I2C) from calling Wire.begin() lcd.backlight();
```

```
  lcd.print("TechyGuide."); //print a message to the LCD: delay(1000);
```

```
}
```

```
void loop()
```

```
{
```

```
  //scroll 15 positions (string length) to the left
```

```
  // to move it offscreen left:
```

```
  for(int positionCounter = 0; positionCounter<15; positionCounter++)
```

```
  {
```

```

//scroll one position left
lcd.scrollDisplayLeft();

//wait a bit:
delay(150);
}

//scroll 31 positions (string length + display length) to the right // to move it offscreen right:
for(int positionCounter = 0; positionCounter<31; positionCounter++)
{

//scroll one position left
lcd.scrollDisplayRight();

//wait a bit:
delay(150);
}

//scroll 16 positions (display length + string length) to the left // to move it back to center:
for(int positionCounter = 0; positionCounter<16; positionCounter++)
{

//scroll one position left
lcd.scrollDisplayLeft();

//wait a bit:
delay(150);
}

//delay at the end of the full loop:
delay(1000);
}

```

Output

- You can add your name in this function in the program instead of TechyGuide text. `lcd.print("TechyGuide...");`
- Here we can remove the text length limitation. You can write any length of text. This activity will scroll that text, so you can see full text on display using the scroll left/right function.

