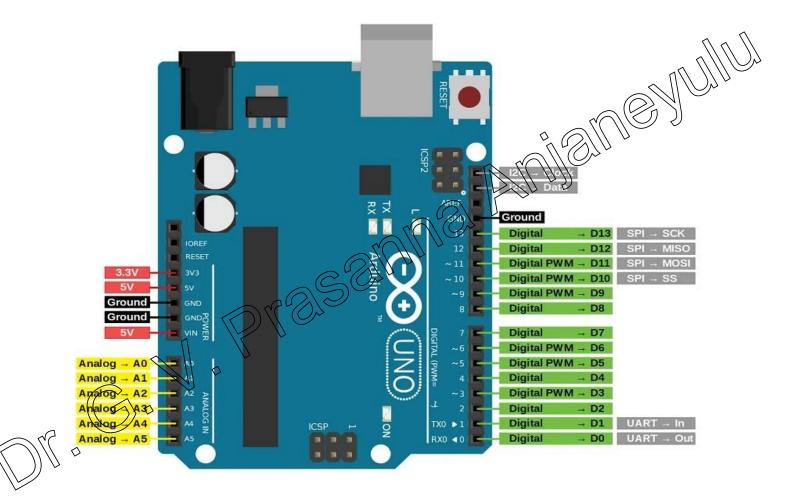
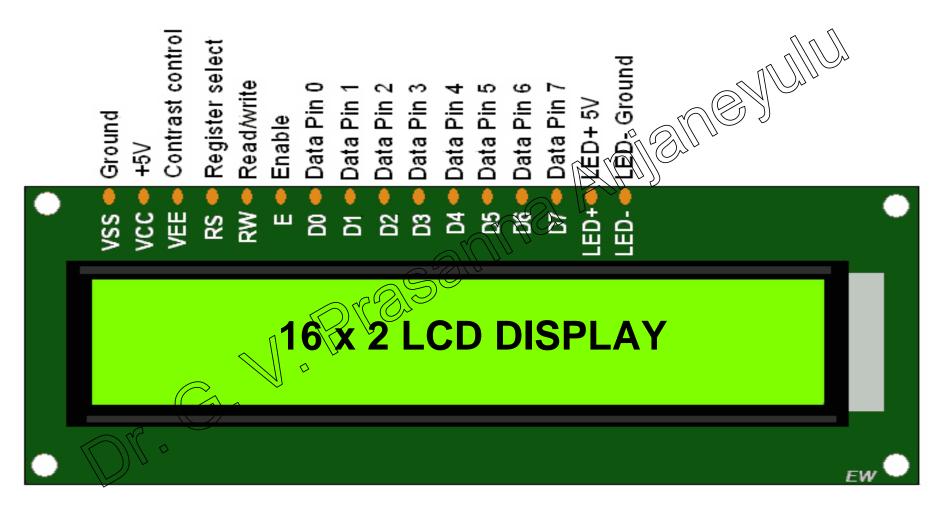
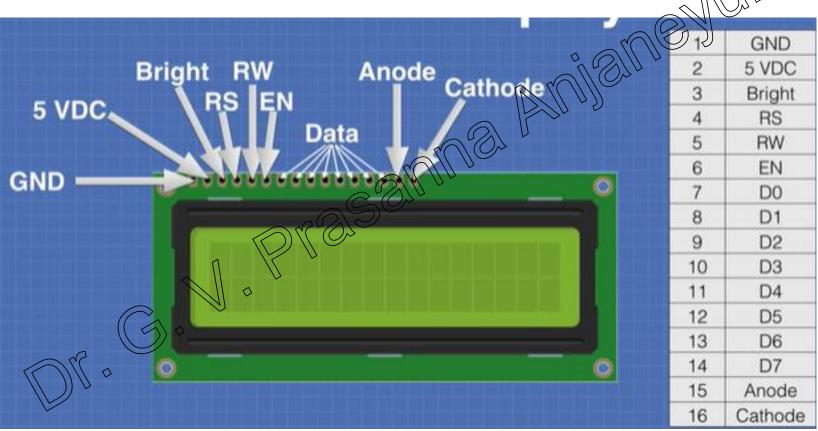
# LCD Interfacing with ARDUINO

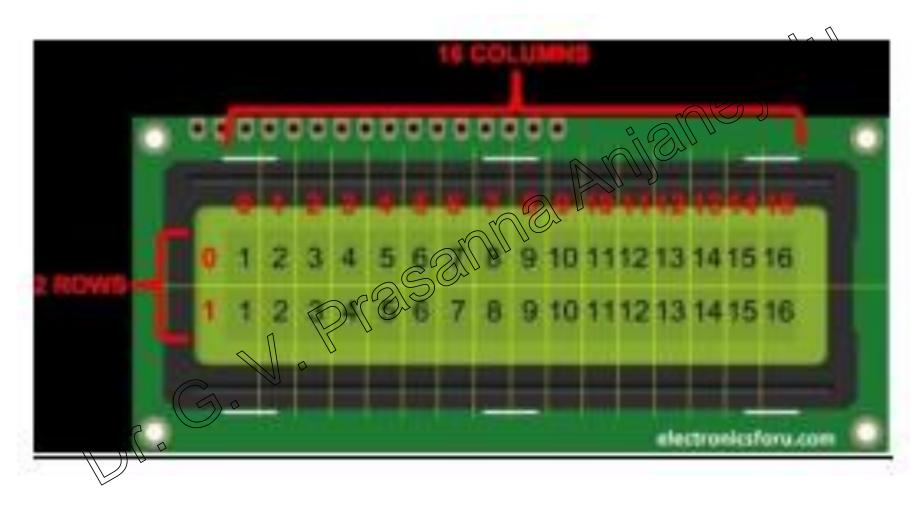


LCD\_Interfacing\_by Dr. GVP

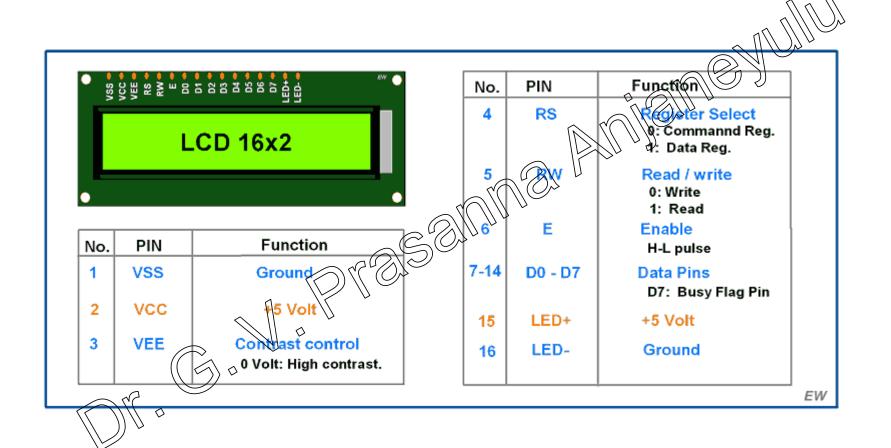


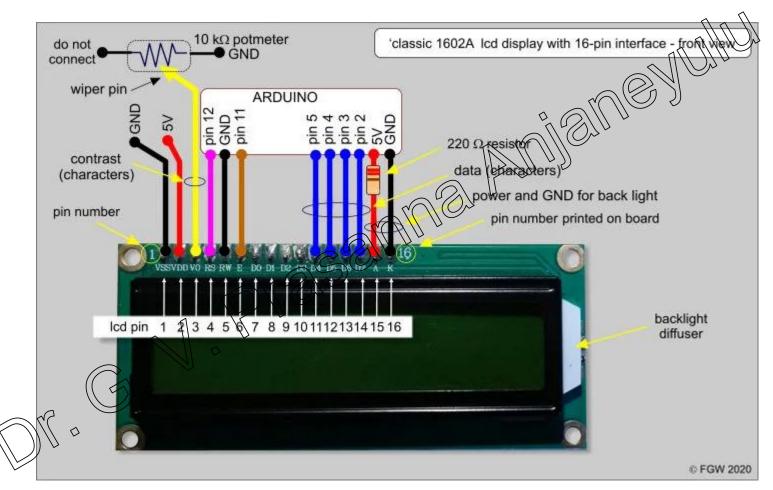
# LCD1602 Display



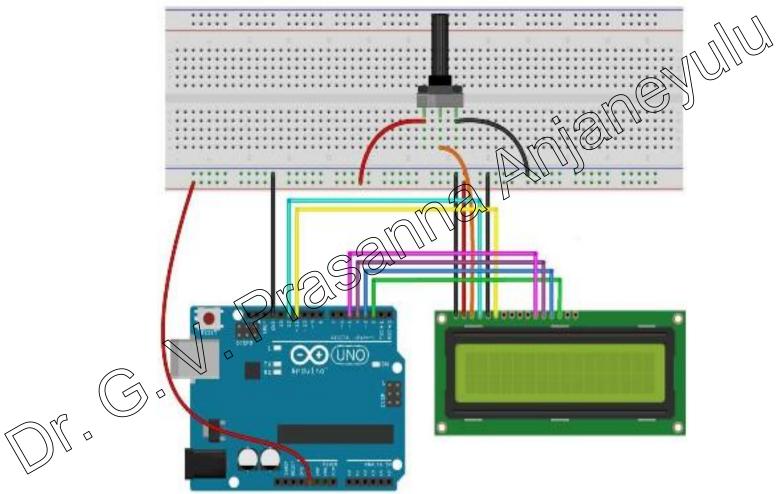


LCD\_Interfacing\_by Dr. GVP



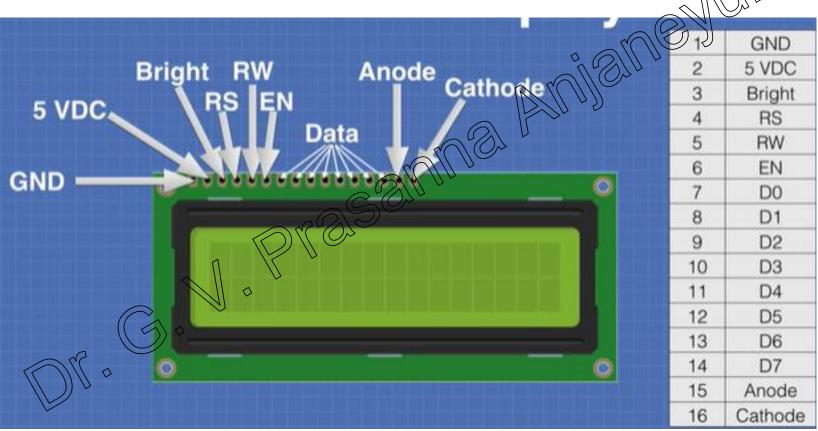


LCD\_Interfacing\_by Dr. GVP

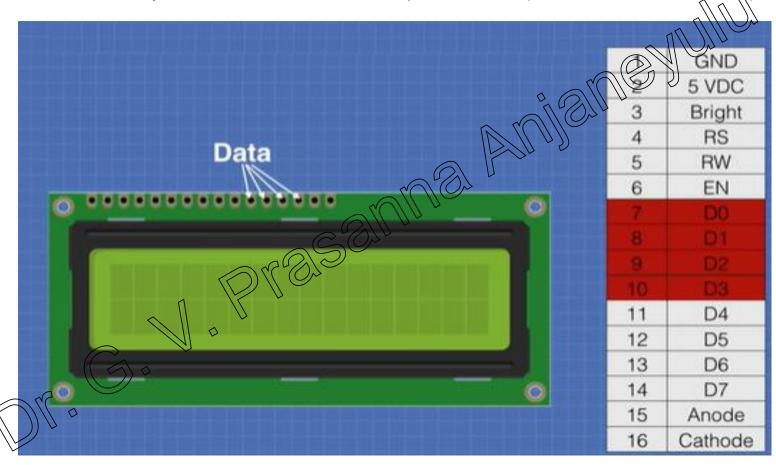


LCD\_Interfacing\_by Dr. GVP

# LCD1602 Display

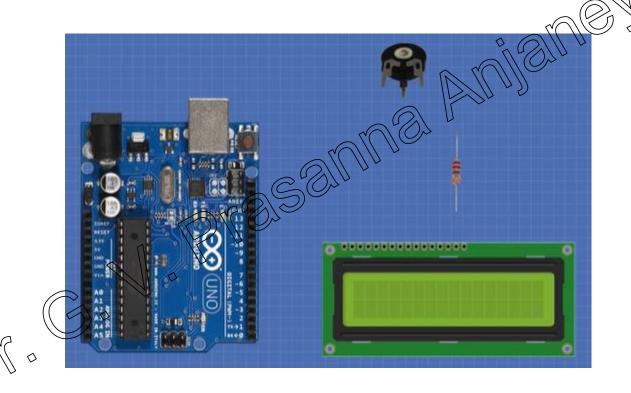


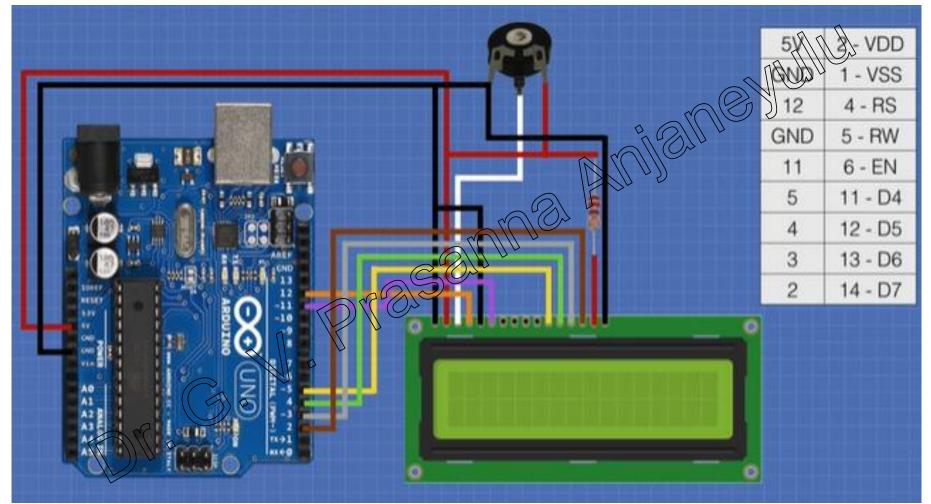
For Half-Byte data transfer D4,D5,D6,D7 pins are used (D0,D1,D2,D3 are not used)



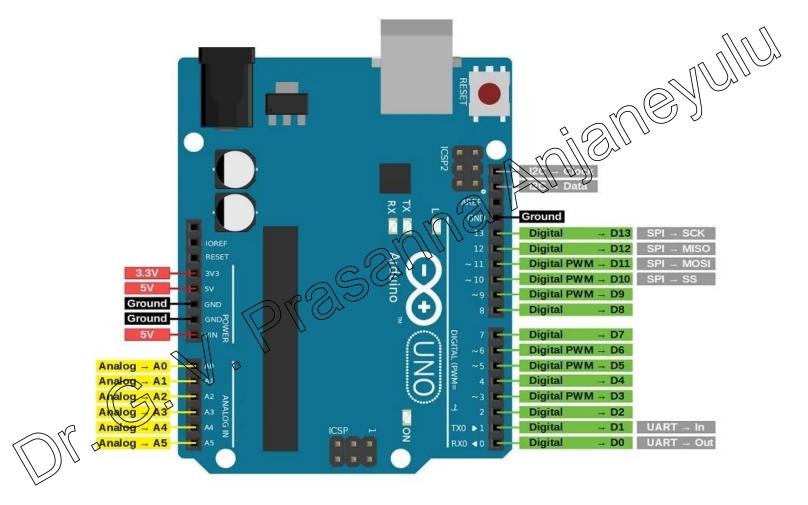
LCD\_Interfacing\_by Dr. GVP

### Components



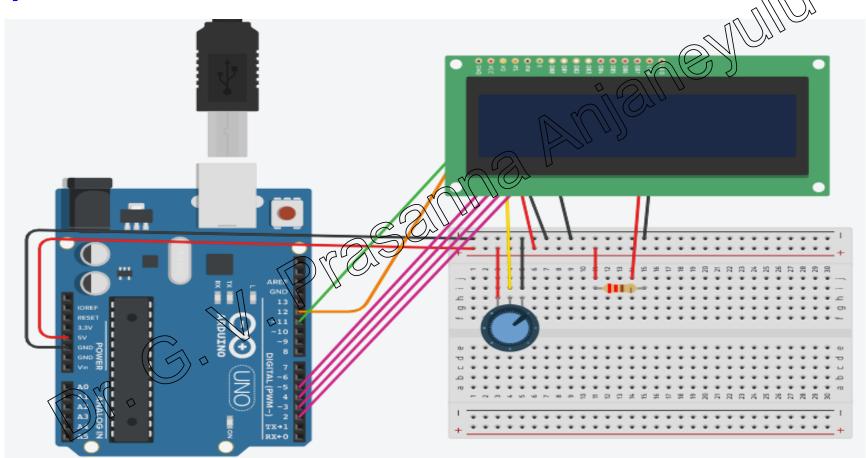


LCD\_Interfacing\_by Dr. GVP



LCD\_Interfacing\_by Dr. GVP

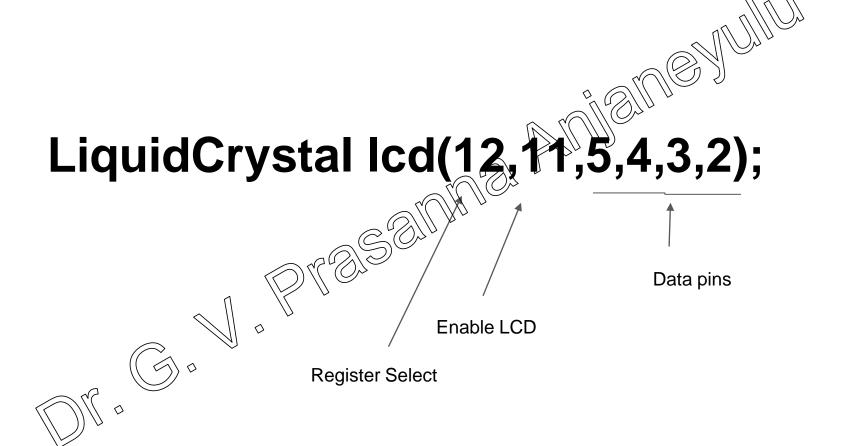
### **Implementation**



LCD\_Interfacing\_by Dr. GVP

Q) WAP to print Hello World! In 1st row and \*\*This is LCD\*\* in 2nd row from 0th column

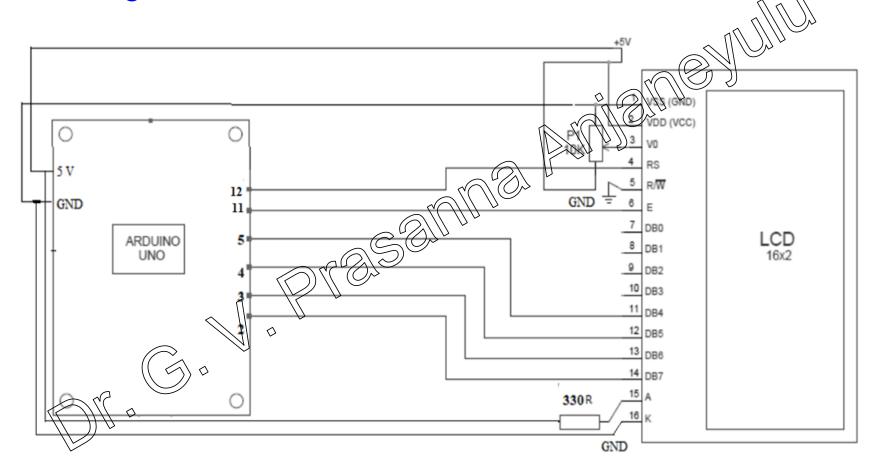




## **Program**

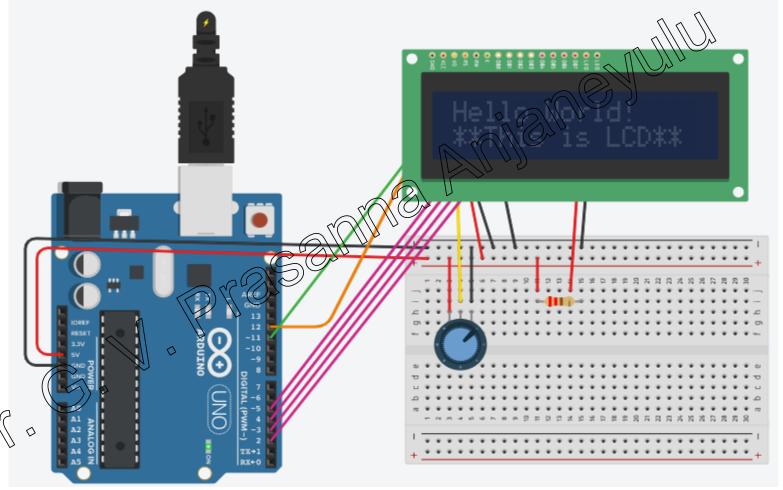
```
//LCD Interfacing with ARDUINO
#include<LiquidCrystal.h>
LiquidCrystal Icd(12,11,5,4,3,2); //RS,E,5,4,3,2
void setup()
lcd.clear();
lcd.begin(16,2);
lcd.setCursor(0,0);
Icd.print("Hello World!");
Icd.setCursor(0,1)
Icd.print("**This is LCD**");
void loop()
```

### Circuit Diagram



LCD\_Interfacing\_by Dr. GVP

### **Result**



LCD\_Interfacing\_by Dr. GVP

### How to use 16x2 LCD with Arduino



Other LCD'S

8×1, 8×2, 10×2, 16×1, 16x4, 20x4 etc.