# printing sum of two numbers on LCD

kanekal kousar

September 7, 2022

#### 1 Abstract

-Through this manual, we learn how to display sum of two numbers on LCD  $\,$ 

#### 2 components

components	values	quantity
Resistor	220ohm	1
Arduino	UNO	1
LCD	16x2	1
bread board	_	1
jump wires	-	20

TABLE I

## step 1

-Connect the 5V pin of the Arduino to an extreme pin of the Breadboard Let this pin be V cc .

## step 2

-Connect the GND pin of the Arduino to the opposite extreme pin of the Breadboard.

## step 3

-plug the LCD in fig.7 to breadboard

## step 4

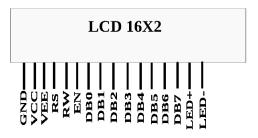
-Connect the 220Ohm resistance from Vcc to pin 15 (Led+) of the LCD.

#### step 5

-Connect the arduino to the computer so that it is powered.

#### TABLE II : Arduino to LCD connections

A 1 ·	TOD :	TOD :	T CD ·
Arduino	LCD pins	LCD pin	LCD pin
pins		label	Descrip-
			tion
GND	1	GND	
5V	2	Vcc	
GND	3	Vee	Contrast
D12	4	RS	Register
			Select
GND	5	R/W	read/write
D11	6	EN	Enable
D5	11	DB4	Serial
			connec-
			tion
D4	12	DB5	Serial
			connec-
			tion
D3	13	DB6	Serial
			connec-
			tion
D2	14	DB7	Serial
			connec-
			tion
5V	15	LED+	Backlight
GND	16	LED-	Backlight



# //printing on LCD lcd.print("the sum is"); lcd.setCursor(1,7); lcd.print(sum); } void loop(){

#### step 6

-make the Arduino to LCD pin connections as show in table II

#### Result

-on LCD display you will get the sum of numbers you entered in serial monitor

## step 7

-Open the Arduino IDE and type the following code. Open the serial monitor to enter the inputs

```
#include <LiquidCrystal.h>
LiquidCrystal lcd(12,11,5,4,3,2);//arduino pins connected to LCD
int n1,n2;
               //initializing input variables
int sum;
               //initializing sum variable
void setup()
 lcd.begin(16, 2);
  lcd.setCursor(0, 0);
  Serial.begin(9600);
  //diplaying in serial monitor
  Serial.println("Enter two numbers:");
  while (Serial.available() == 0)
  //taking first input through serial monitor
  n1= Serial.parseInt();
  //taking second input through serial monitor
  while (Serial.available() == 0)
  n2 = Serial.parseInt();
  //required sum
  sum=n1+n2;
```