AVR-GCC Assignment

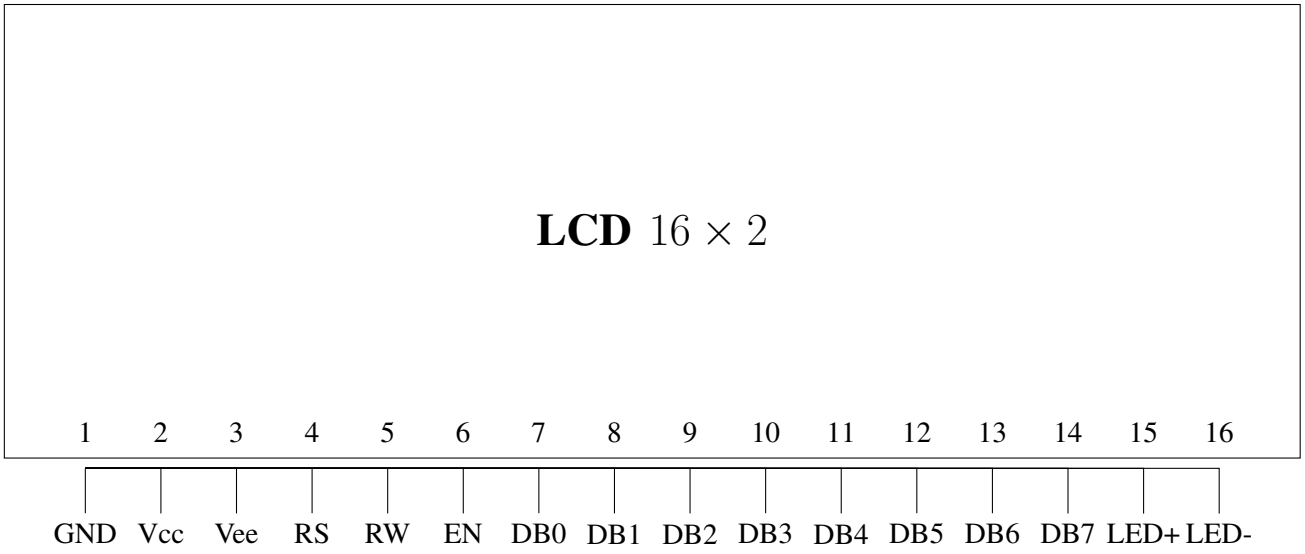
Adarsh kumar (FWC2022068)

***Abstract*—This manual will explain how to design a 4-Bit Synchronous Counter Using AVR-GCC and Display it on LCD Display.**

I. Components Needed

Component	Value	Quantity
Arduino	Uno	1
Bread board	-	1
Jumper wires	M-M	20
Liquid Crystal Display	-	1

II. Liquid Crystal Display layout



III. Steps to be followed:

Step 1: Plug the LCD Display on the Breadboard.
Step 2: Connect the LCD Display And Arduino as per the table given below.
Step 3: Download the code from the link given below.
svn co https://raw.githubusercontent.com/aadrshptel/Fwcmodule1 /main/Assignments/AVRGCC/codes/counter.c
Step 4: download the files in the above link and move to the working directory in the termux and run the command ”MAKE”

A. *To generate PDF file*

Step :1 Type pdflatex followed by the file name.

IV. Arduino And LCD DIsplay Connection

Arduino Pins	LCD Pins	LCD Pins Label
GND	1	GND
5V	2	Vcc
GND	3	Vee
D8	4	RS
GND	5	R/W
D9	6	EN
D10	11	DB4
D11	12	DB15
D12	13	DB6
D13	14	DB7
5V	15	LED+
GND	16	LED-