**Introduction**

Hey there! Do you want to get your hands on some cool stuff? Here is a tutorial on how to write virtually any text using the dot matrix. We would be using the InventOne dev board to control a dot matrix displaying conveniently any text we want it to display.

Note that you can cascade any amount of dot matrices together to get a somewhat large screen of display the MAX7219 chip enables us to have this feature. For more tutorial on the MAX7219 chip check out the datasheet of the microchip and to know how an LED matrix work just google it and you’d get a chunk of sites talking about, we would skip that here and go straight to the project.

**List of Components**

MAX7219 LED matrix module

Jumper wires

InventOne dev board

**NB:** You can order for your components from any online store (Hub360, aliexpress, ebay) please click the link below to order for your inventone dev board.

**Tutorial**

Let’s get down to business, we’ve added a picture of the circuit diagram which we made using fritzing. The circuit is pretty easy and all you need to do is connect the legs from the module to inventone, we’ve added the appropriate pin matching from the module to inventone in the code.

**Code**

We would be making use of MaxMatrix library provided by Riyas, check out his git repo <https://github.com/riyas-org/max7219> to download the zip file of the library if you don’t have it yet. Arduino forum has a tutorial on how to add zip library to your Arduino IDE. To change the text being displayed by the matrix just scroll down to the text [ ] section, presently you have *“Never Give Up Your Dream”* you can change the text to anything you want to be displayed.

Note that I didn’t say much about the code, that’s because you need not bother much about the code if you just want to get your Matrix up and running in no time. But if you are interested in understanding the code proper, you can contact any of our engineers at inventech we would put you through it.

