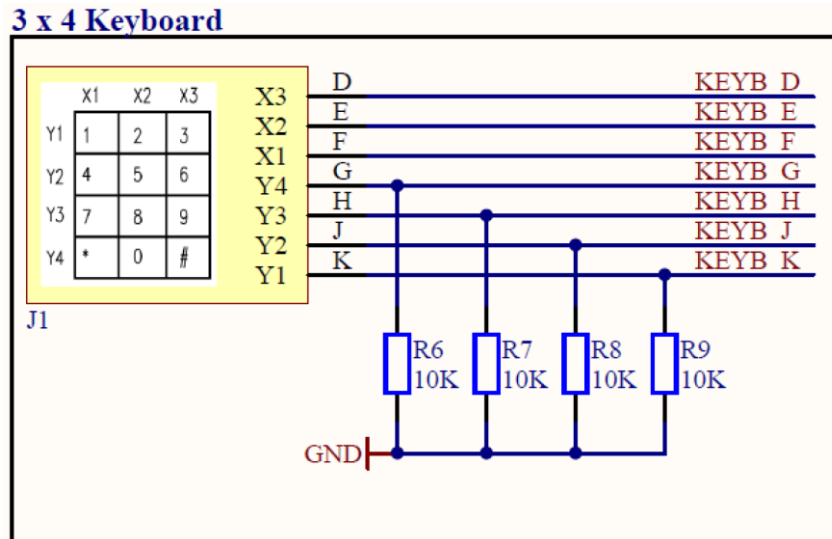# Assignment 5 – Matrix Keyboard

Now it is time to add a more advanced input method to our application.

Assignment

1) If it is not already attached, mount the keyboard to the EMP board according to the diagram below.

2) Write a driver which scans the keyboard and sends the ASCII characters ('0'..'9','*','#') to the application through an input queue. The keyboard driver must be implemented as a loosely coupled task.
3) Expand your Assignment4 program to add some user interaction through the keyboard and the LCD display. Create an intuitive dialog to set the time.
4) The application must be built on some kind of Run To Complete Scheduler. You may get inspired from the solution to Assignment4.

The keyboard datasheet can be found on itslearning Resources/datasheets/EMP Board.

Good luck,

Oskar