Design a Non-blocking LCD and Keypad (Pseudo code):

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Firstly: Non-Blocking LCD (Pseudo code):

1- **LCD initialize ports**
2- **clear RS, clear RW, set EN pulse for 1us (time out)**
3- **set command to data pins**
4- **clear RS, clear RW, set EN pulse for 1us (time out)**
5- **delay 2ms**

Secondly: Non-Blocking KEYPAD (Pseudo code):

1- **KEYPAD initialize ports**
2- **Looping over row and colomn**
3- **Check which row matches colomn with non blocking delay**
4- **Then get key**