Morse code application - Processing human touch as input.

This application takes the **Morse code** input through the **human touch via touch sensor** and converts it into its equivalent word.

This application is built on **Intel Galileo** microcontroller based board. LCD and the touch sensors used are a part of the 'Grove sensor kit'.

IDE used - Arduino

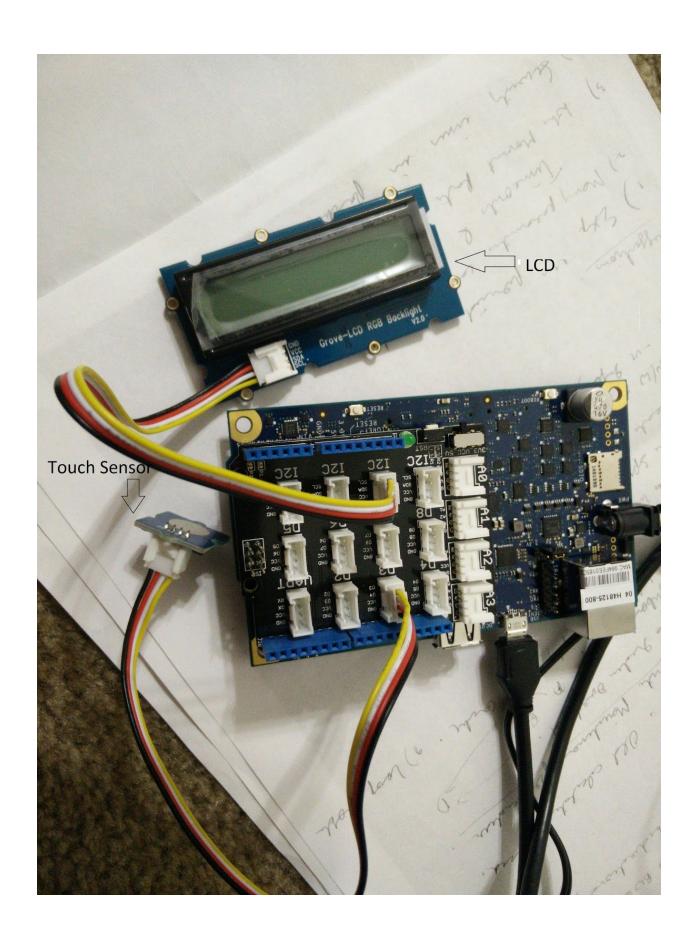
Language used - Embedded C

This application processes the human input and checks the duration for which the touch is maintained by the user.

If the user maintains the touch for less than or equal to 2 seconds, then the touch corresponds to a **dot (.)**.

If the touch is for more than 2 seconds, then the touch corresponds to a dash (-).

The connections of the LCD and the touch sensor are as follows.



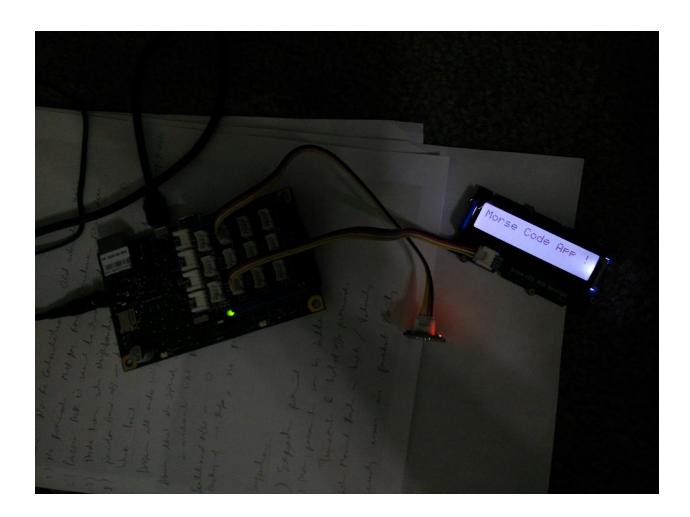
The user needs to first input the number of characters present in the morse code. And then give the touch input that many times. And then its equivalent word will be shown on the lcd.

The code for this is present in source_code folder.

The libraries needed for LCD are also present in the same folder.

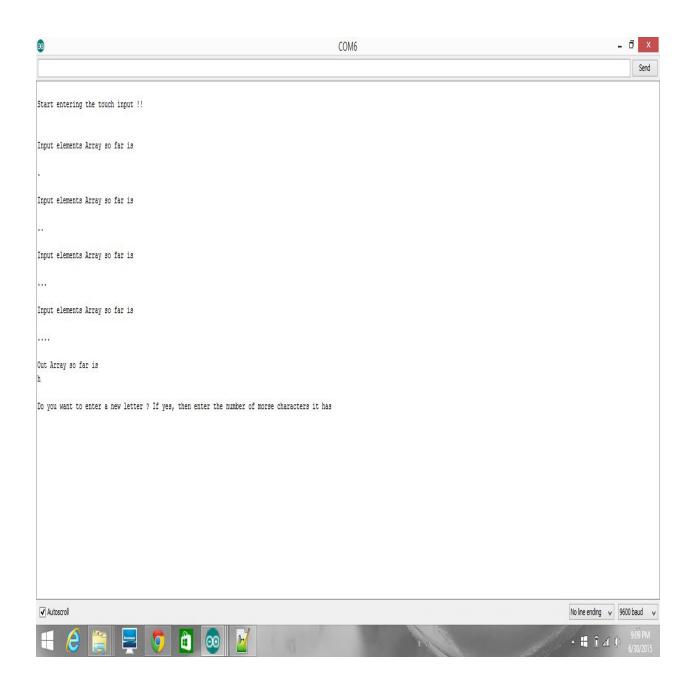
We will print the word 'Hello' on the lcd in the following steps.

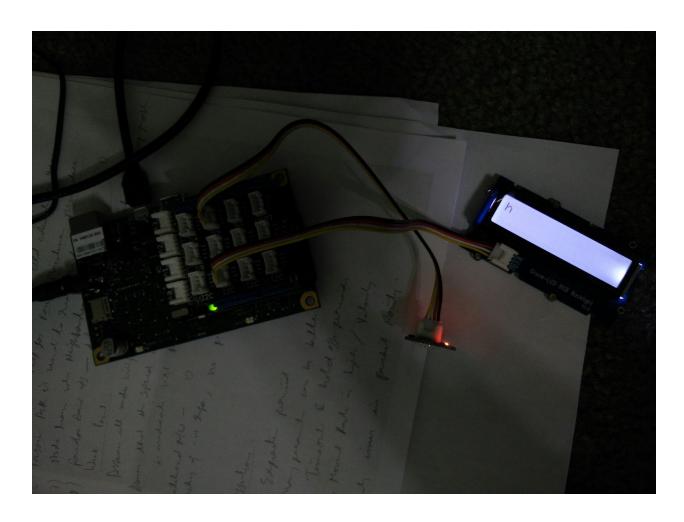
Step 1) The initial screen looks like the following -



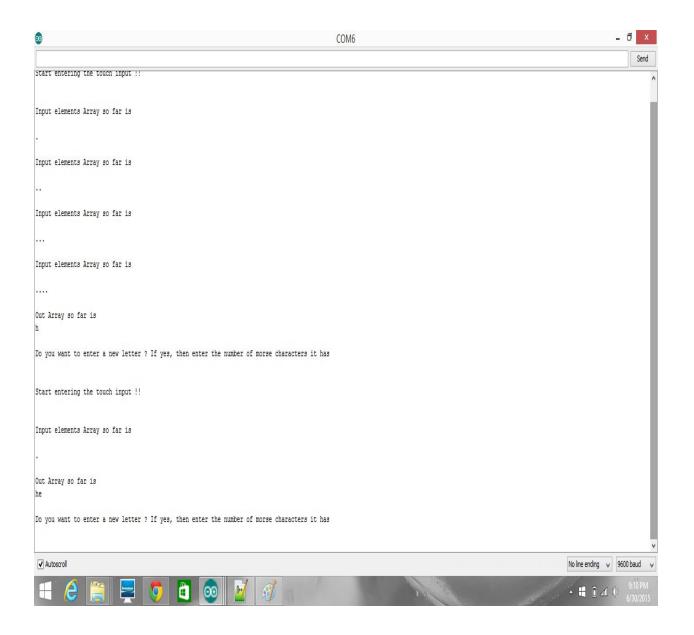
Step 2)

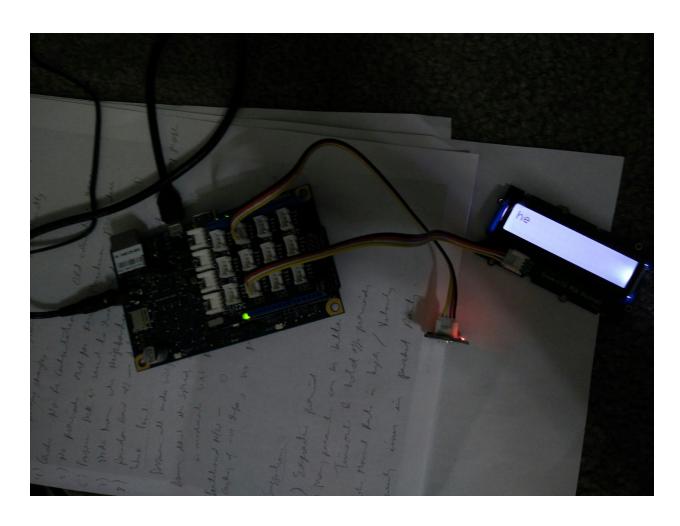
The user enters '....' which is equivalent to 'h'



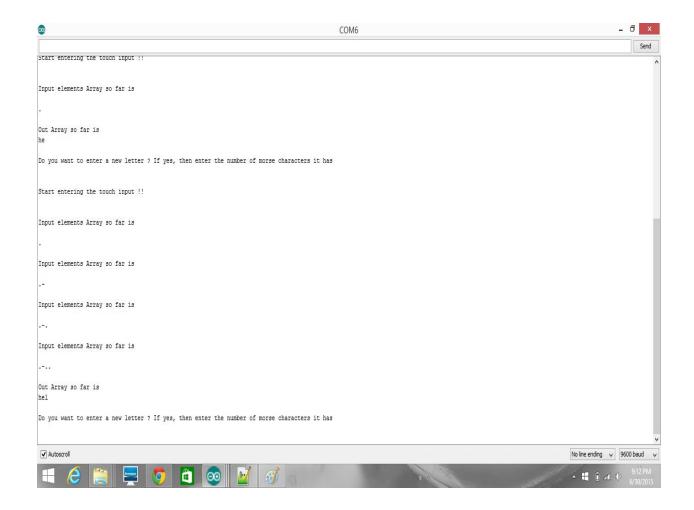


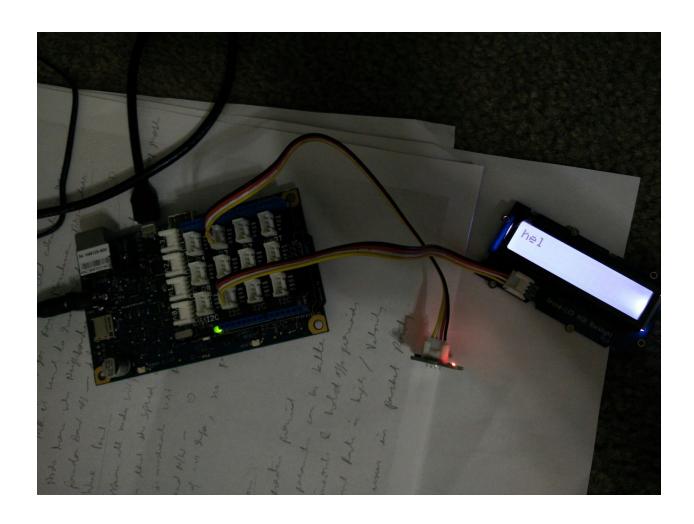
Step 3) The user enters '.' which is equivalent to 'e'.



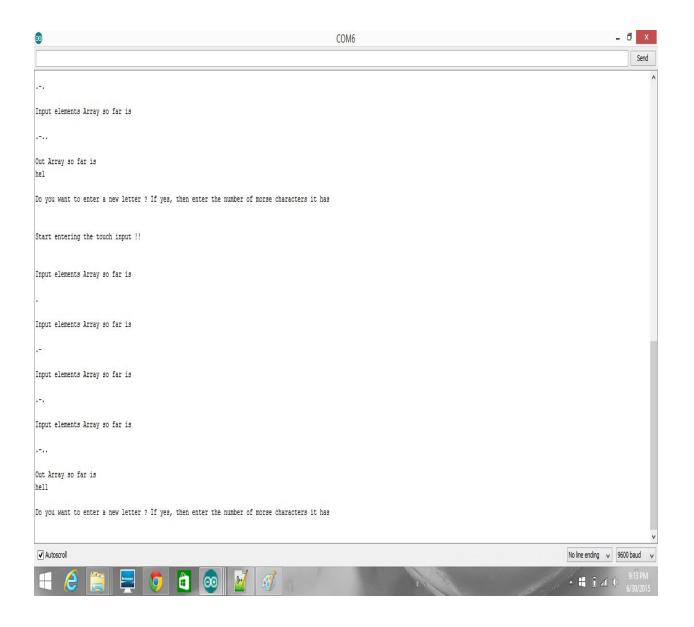


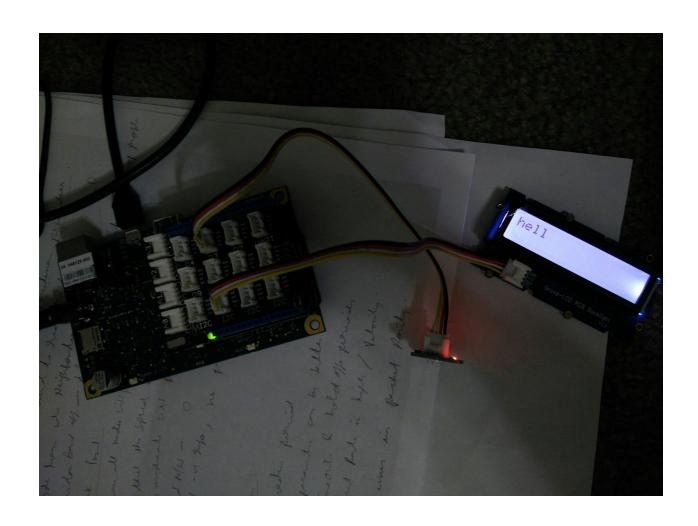
Step 4) The user enters '.-..' which is equivalent to 'l'





Step 5) The user enters '.-..' again which is equivalent to 'l'





Step 6) The user enters '---' which is equivalent to 'o'

