MARATHON RUN TIME RECORDER

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WORKING

- Here we are calculating the time taken by a runner to cross a finish line . As we keep this device on the finish line the ultrasonic sonic sensor detects the runner and gives the time he has taken to reach the finish line .

- The runner starts running just when the "Clock started" is displayed .

- Here the pushbutton is used to reset the timer

- The time reached to reach the finish line from the time when " Clock started " was displayed is being displayed by the LCD present

COMPONENTS

- Ultrasonic sensor :- Detects the runner when he runs across it

- Pushbutton :- To reset the timer

- LCD I2C :- To display the time taken by the runner to reach the finish point,

- Breadboard
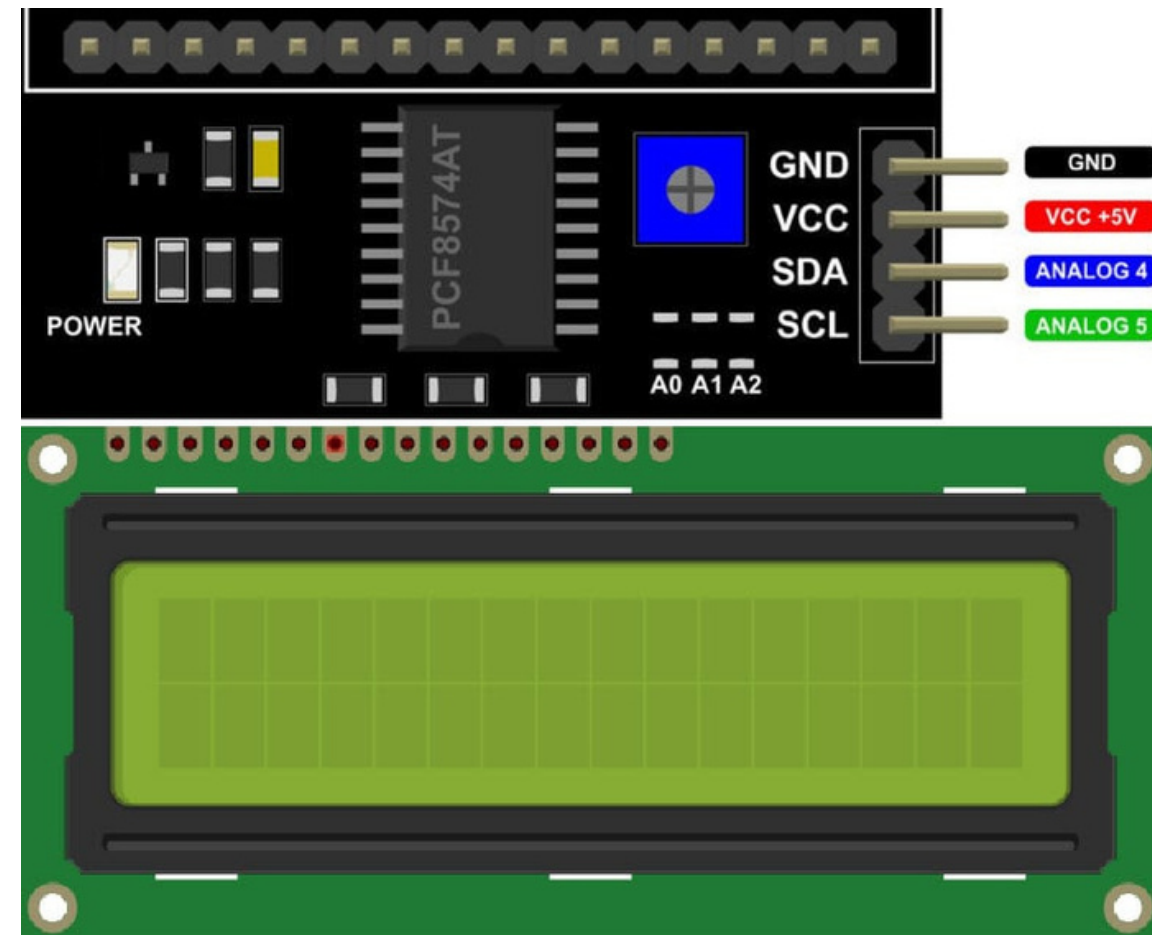
- Jumper wires

- Arduino UNO is based on an ATmega328P <u>microcontroller</u>. It is easy to use compared to other boards, such as the Arduino Mega board, etc. The board consists of digital and analog Input/Output pins (I/O), shields, and other circuits.

- The Arduino UNO includes 6 analog pin inputs, 14 digital pins, a <u>USB</u> connector, a power jack, and an ICSP (In-Circuit Serial Programming) header. It is programmed based on IDE, which stands for Integrated Development Environment. It can run on both online and offline platforms.