Morse code

The aim of the project is to build a SMS sending system using eye blink sensor by using morse code. Morse code is used to transmit messages using electrical pulses that they then translated into text messages. This system displays the SMS on LCD module and it is very useful who cannot talk with each other.

In this project we are going to using eye Blink sensor to sense the eye blinking which is attached to the spectacles. Buzzer will be on at a particular duration of time based on eye blink. The arduino nano will translate the eye blinks into the text message and will be display on LCD using morse code. The power supply given for this circuit by a DC adapter which will give 5V DC supply to the circuit.

Main features present in the project:

- Converts eye blinks into text message using morse code.
- To detect the eyelike using eye blink sensor.
- Displaying the text message on LCD display.
- Audible alerts using buzzer.
- To achieve this task using arduino nano microcontroller.

Components used:

1. Arduino Nano
2. EYE Blink sensor
3. Buzzer
4. LCD display
5. 5V DC adapter.

Software used:

- Embedded C Programming

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- Arduino ide to dump the code in to the Arduino Nano.

- Express SCH for circuit design.

Block diagram:

```
                    ┌─────────────────┐
                    │  5v Power supply │
                    └────────┬────────┘
                             │
                             ▼
┌─────────┐         ┌─────────────────┐        ┌──────────┐
│   Eye   │         │                 │───────▶│  Buzzer  │
│  Blink  │────────▶│    Arduino      │        └──────────┘
│ sensor  │         │     Nano        │        ┌──────────┐
└─────────┘         │                 │───────▶│   LCD    │
                    │                 │        │ Display  │
                    └─────────────────┘        └──────────┘
```

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