Procedure for converting LM393 encoder signals to RPM

- Setting up nodeMCU.
- Defining variables.
- Initializing the start time and setting up the end time to let's say t1 seconds more than the start time.
 - where, t1 should be an estimate of how long the impeller rotates.
- Detecting the number of transformations from a hole to solid surface, which are detected as '0' or '1' and counting them.
- Calculating the number of rotations by dividing the number of transformations by the number of holes in the slotted disk, which gives us the number of rotations in t1 seconds.
- Dividing it by t1 to obtain the number of rotations in one second.
- Obtaining the rpm by multiplying it to 60.

Pseudo Code

```
// Define variables
      initial_time;
      final time;
      count;
      sensor;// initializing a variable for sensor
      RPM;
// Set-up procedure
      }
// Main Procedure
      initial_time → millis(); // library func. returning the time of
                                                 program run in milliseconds
      final_time → start_time + t1;
      time
               if (digitalRead(sensor)) then // if a switch to 1 is detected count
                                            increments
            count \rightarrow count + 1
          end
        end
      rotations_sec → count/(16*t1); // rotations in 1 second
      RPM ---> (rotations*60);
      // How to show output
      end procedure
```