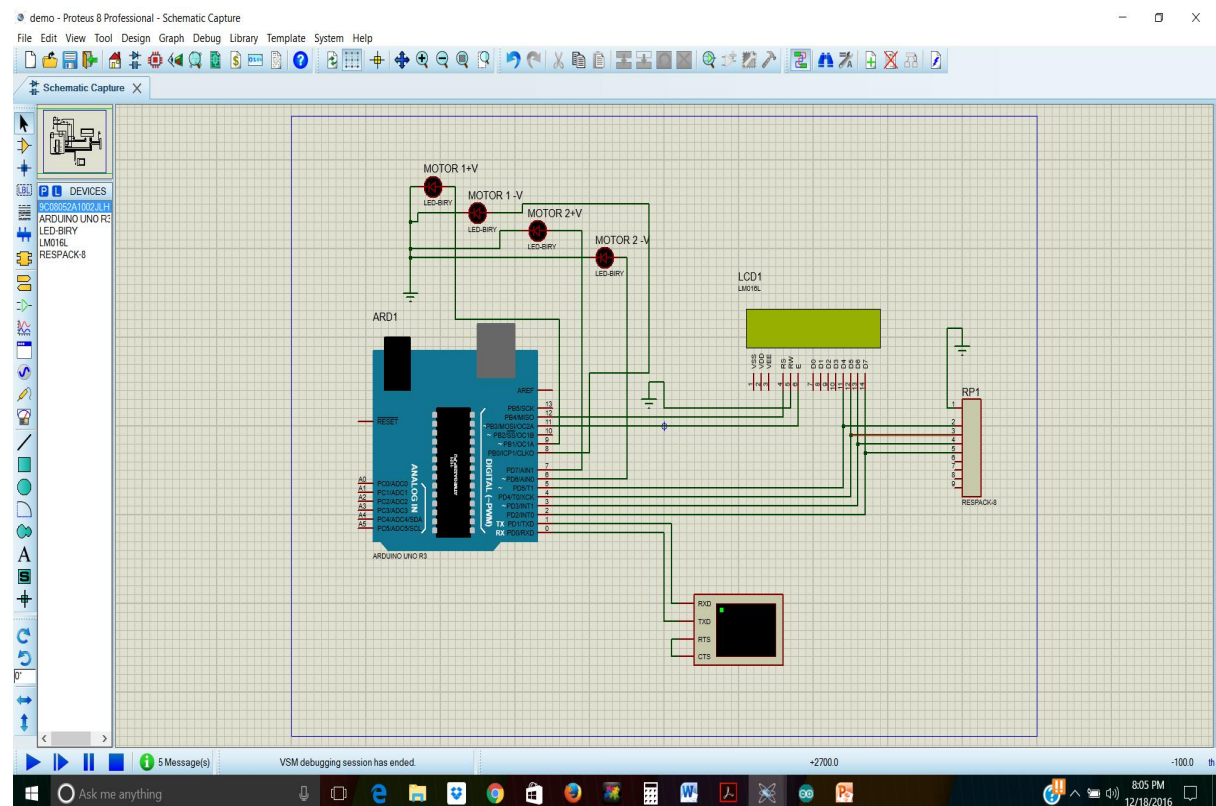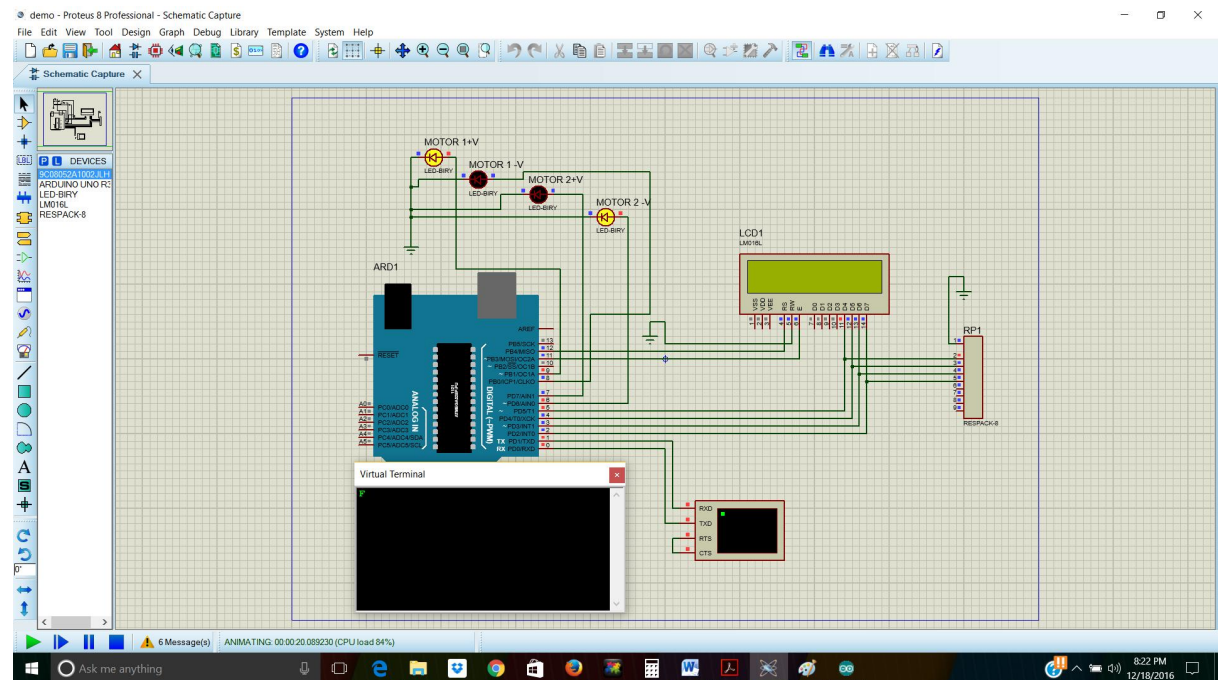# SIMULATION USING PROTEUS 8 PROFESSIONAL

Setup:

The simulation is carried out through step by step as follows,

- Arduino UNO is used as the microcontroller.

- LCD display for interactive communication.

- LEDs' for differentiating each instruction of two DC motors.

- Virtual terminal for serial communication of ESP8266 with Arduino.

- Tx and Rx of virtual terminal are connected with Rx and Tx of Arduino.

- Program file for Arduino UNO is created through Arduino IDE.

- .hex file is created generated by compiling .c file of Arduino IDE.

- .hex file is included in Arduino board in the simulator screen.

- Commands are given through virtual terminal.

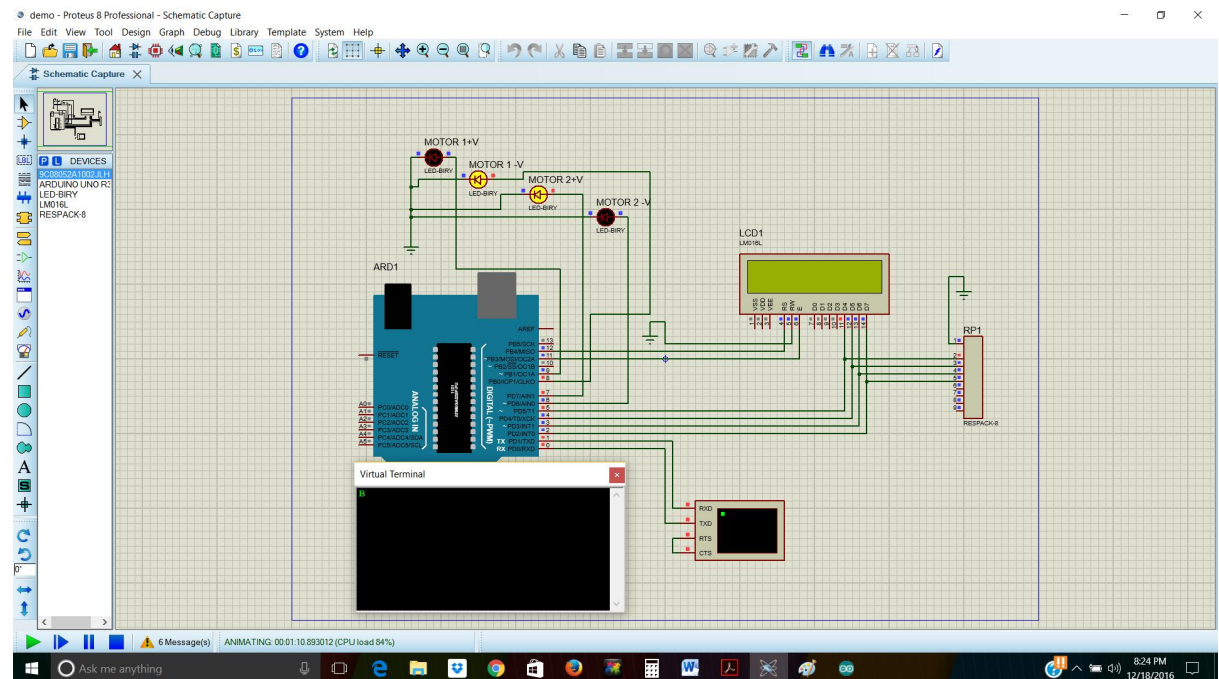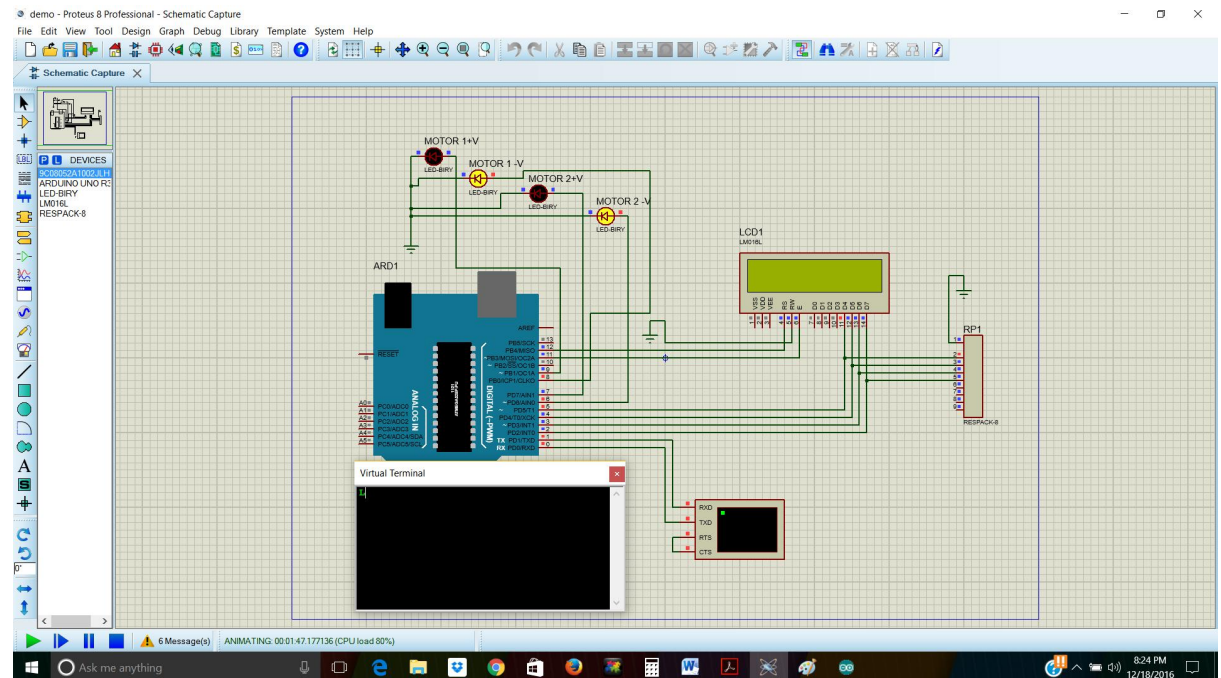- Output for each instruction is analyzed from LEDs' output.

Output:

FORWARD

BACKWARD

LEFT

RIGHT