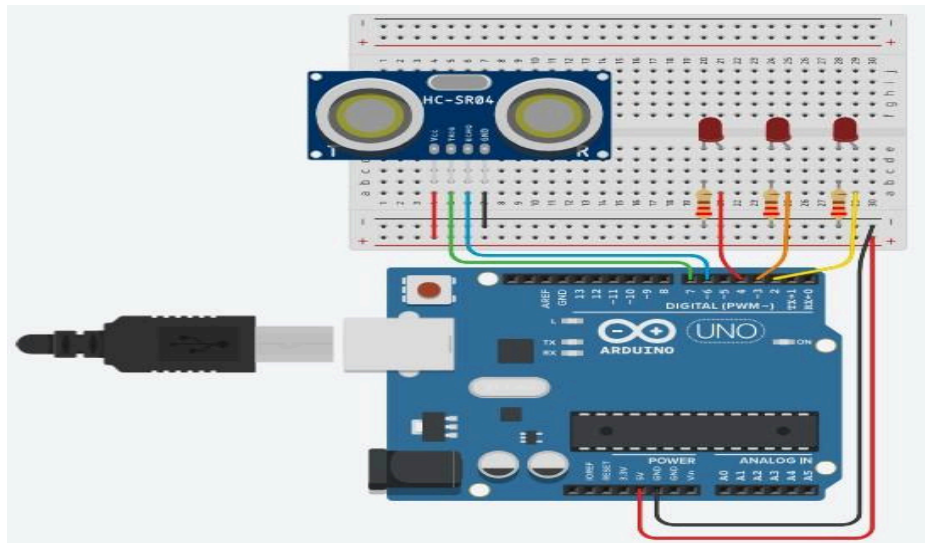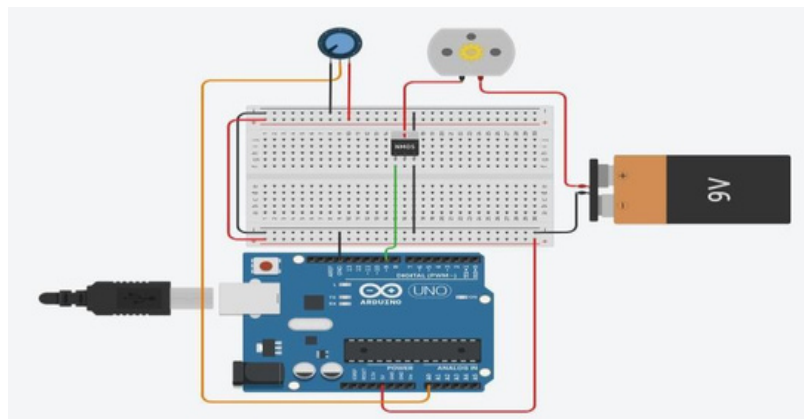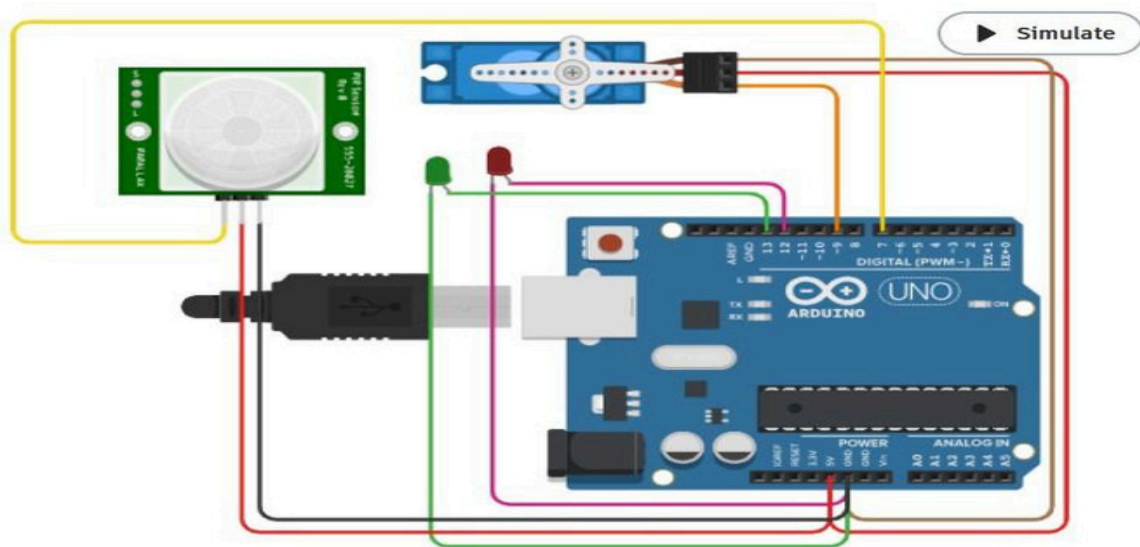2. Simulate an ultrasonic distance sensor

3. Simulate a DC motor with specified input that runs continuously and vary with the DC motor speed
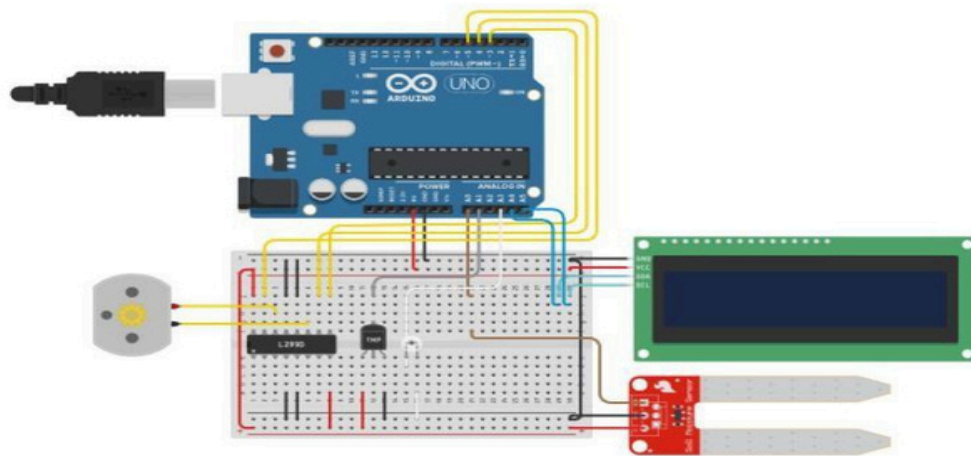

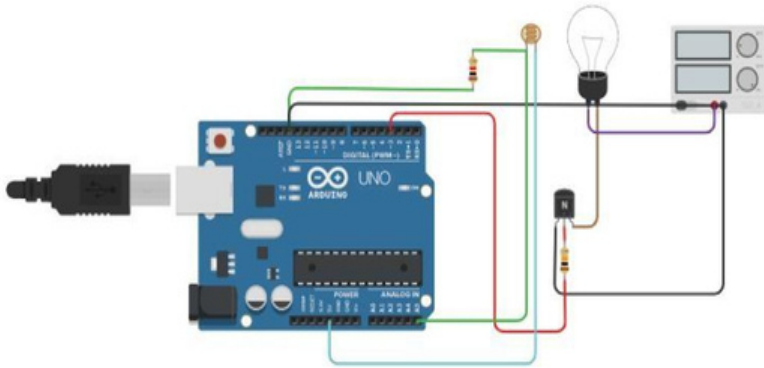4. Simulate door sensor for smart homes using IoT sensor.

9.I in Agriculture

Smart Irrigation System

Build a smart irrigation system using Arduino or Raspberry Pi that incorporates soil moisture sensors and weather data. They will develop an AI algorithm to optimize irrigation based on real-time conditions.

10. Smart Street Lighting with IoT

Design a smart street lighting system using Ardino or Raspberry Pi and IoT sensors to detect light levels and motion. They will develop an AI algorithm to optimize street lighting based on real-time conditions.

int