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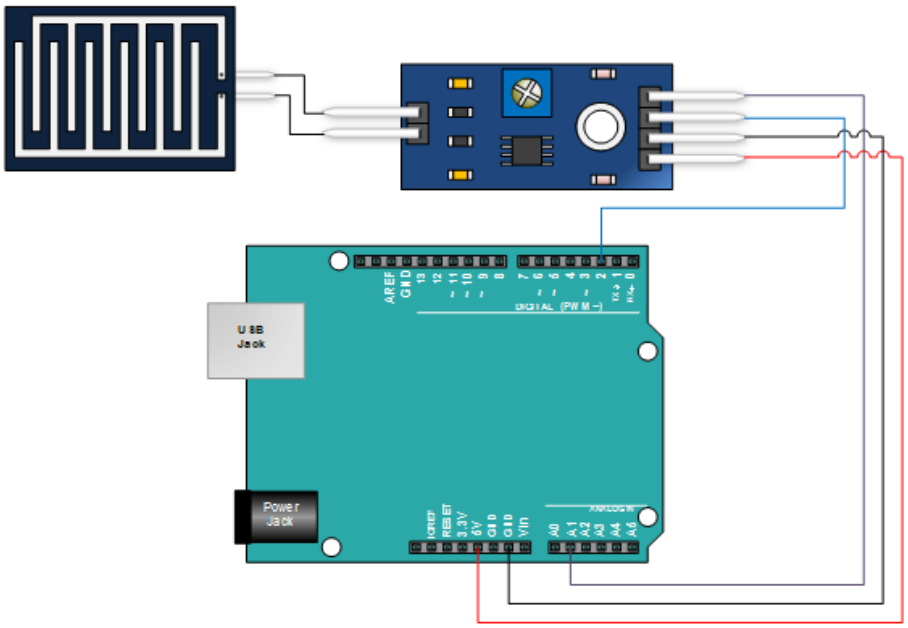
Application: Rain Sensor

COMPONENT NEEDED:

- Arduino UNO
- USB Cable
- Rain sensor module
- Male to female jumper wire

CONNECTION:

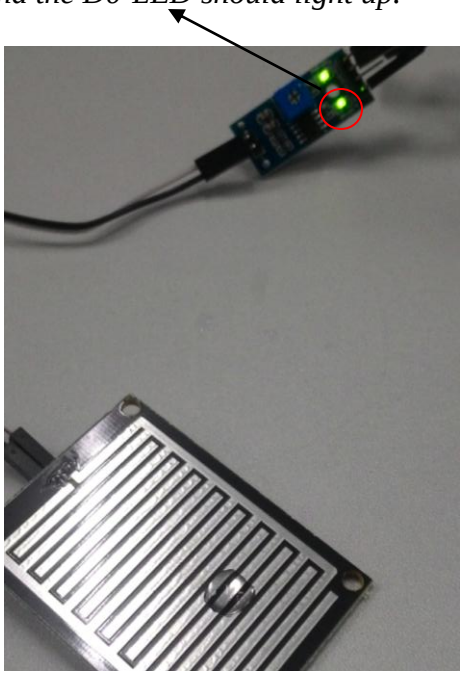


Rain Sensor	Arduino
VCC	5V
GND	GND
S2	D4
AO	Analog in 1

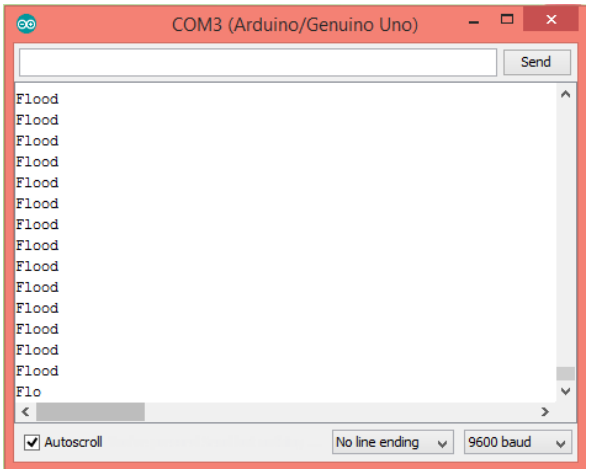
Rain Sensor	Sensor Board
+	+
-	-

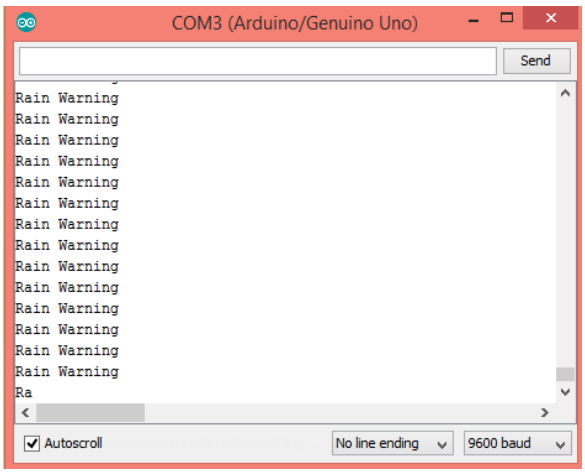
1. Connect the circuit as shown in figure above.
2. Connect your Arduino UNO to Arduino IDE.
3. Open your Arduino IDE.
4. Select the right board type and COM port.
5. Upload the sketch. You can get the sketch from *Application1_Sketch.*
6. Open the serial monitor to view the output and result.

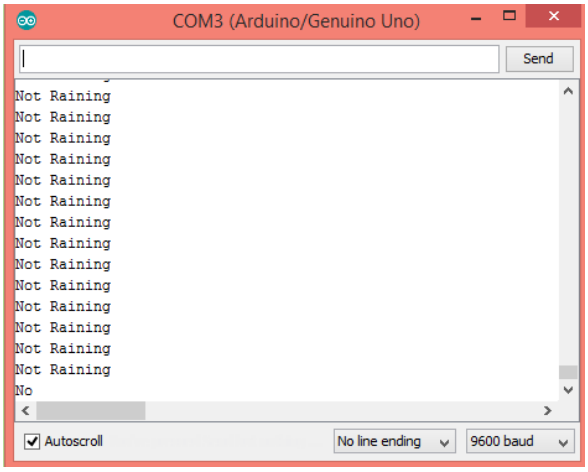
***Note:** To test the Rain Sensor and ensure that it is working correctly, connect the VCC to a 5V power source and GND. Try placing a few droplets of water on the Rain sensor detection board and the D0-LED should light up.*



RESULT:







CONCLUSION:

- If the Sensor Board is completely soaked; **case 0** will be activated and **"Flood"** will be sent to the serial monitor.
- If the Sensor Board has water droplets on it; **case 1** will be activated and **"Rain Warning"** will be sent to the serial monitor.
- If the Sensor Board is dry; **case 2** will be activated and **"Not Raining"** will be sent to the serial monitor.