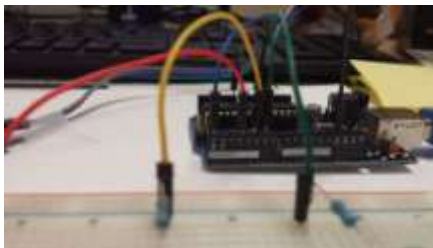
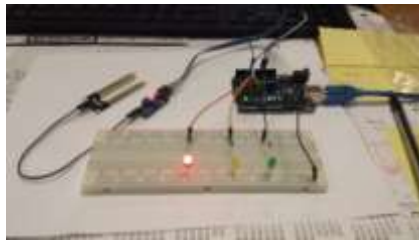
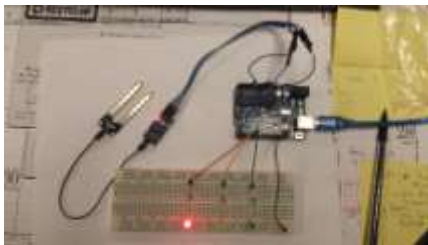


## USING A MOISTURE SENSOR WITH AN ARDUINO UNO

### COMPONENTS:

1. ARDUINO Uno with USB Cable
2. Bread Board
3. Moisture Level Sensor
4. 3 LEDs and Resistors
5. Jumper Wires



### PROGRAM:

```
int LED1 =3;
int LED2 =5;
int LED3 =6;

void setup() {
  Serial.begin(9600);
  //declare pin 3, 5,6 to be out put:
  pinMode(LED1, OUTPUT);
  pinMode(LED2, OUTPUT);
  pinMode(LED3, OUTPUT);
  digitalWrite(LED1,1);
```

```
digitalWrite(LED2,2);
digitalWrite(LED3,3);

}

void loop() {
  int sensorValue=analogRead(A0);
  Serial.println(sensorValue);
  if (sensorValue>=1000){
    digitalWrite(LED1, HIGH);
    digitalWrite(LED2, LOW);
    digitalWrite(LED3, LOW);
  }
  else if(sensorValue>=350 && sensorValue<950){
    digitalWrite(LED2, HIGH);
    digitalWrite(LED1, LOW);
    digitalWrite(LED3, LOW);
  }
  else if(sensorValue>=0 && sensorValue <350){
    digitalWrite(LED3, HIGH);
    digitalWrite(LED1, LOW);
    digitalWrite(LED2, LOW);
  }
  delay(1000);

}
```