

# Automatic Plant Watering System

This system waters your plants automatically by sensing soil moisture.

Components:

- Arduino UNO
- Soil moisture sensor
- Relay module
- Water pump

Code will be uploaded using Arduino IDE.

Connections:

- Soil sensor to A0
- Relay to D7

Thank you!

## Arduino Code:

```
int sensorPin = A0;
int relayPin = 7;

void setup() {
  pinMode(relayPin, OUTPUT);
  Serial.begin(9600);
}

void loop() {
  int moisture = analogRead(sensorPin);
  Serial.println(moisture);

  if (moisture < 400) {
    digitalWrite(relayPin, HIGH); // Turn ON pump
  } else {
    digitalWrite(relayPin, LOW);  // Turn OFF pump
  }
}
```

```
}  
  delay(1000);  
}
```