

IOT LAB - 5th Sem

Name : Sayed Ayman Bukhari , USN : 1BM18CS095

Program No : 16

Program Title : Smart Irrigation

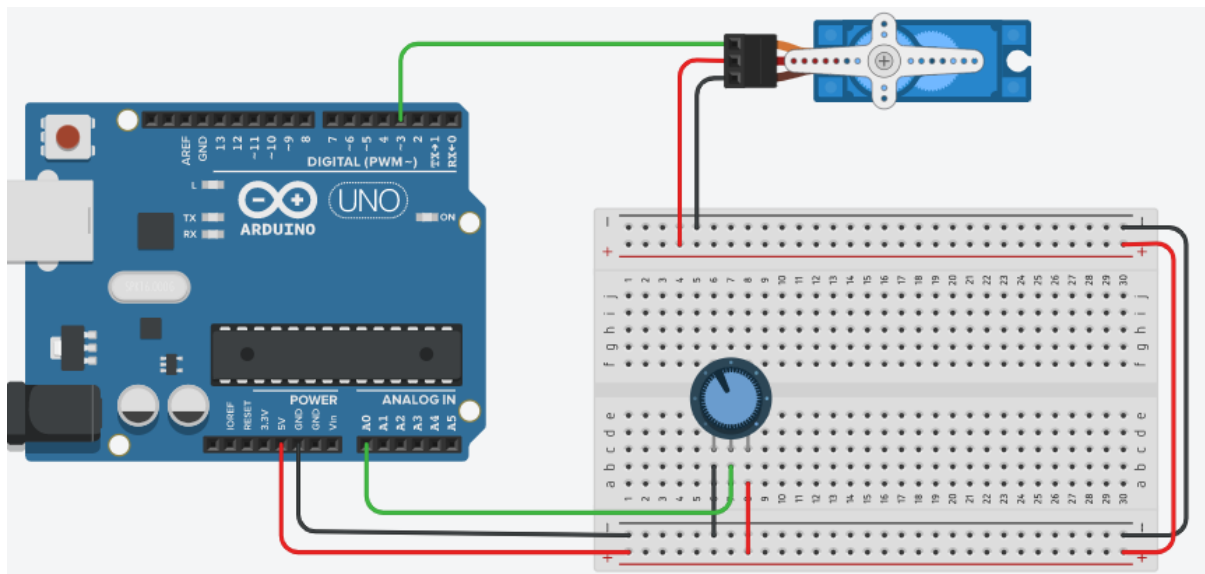
Aim :

To design a smart irrigation system (Potentio & Servo) using an Arduino Uno board.

Hardware Required :

- Arduino Uno Board
- Potentiometer
- Micro Servo

Circuit Diagram :



Written Code :

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```
#include <Servo.h>
Servo myservo;
int pos = 0;
int sensorpin = A0;
int sensorvalue = 0;

void setup()
{
  myservo.attach(3);
  Serial.begin(9600);
}

void loop()
{
  sensorValue = analogRead(sensorpin);
  Serial.println(sensorValue);
  if (sensorValue > 500)
  {
    for (pos = 0; pos <= 180; pos += 1)
    {
      myservo.write(pos);
      delay(15);
    }
    for (pos = 180; pos >= 0; pos -= 1)
    {
      myservo.write(pos);
      delay(15);
    }
  }
  delay(1000);
}
```

Observation /Output :

The Servo moves when the potentiometers resistance is above a certain level.