IOT LAB - 5th Sem

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Program No : 16
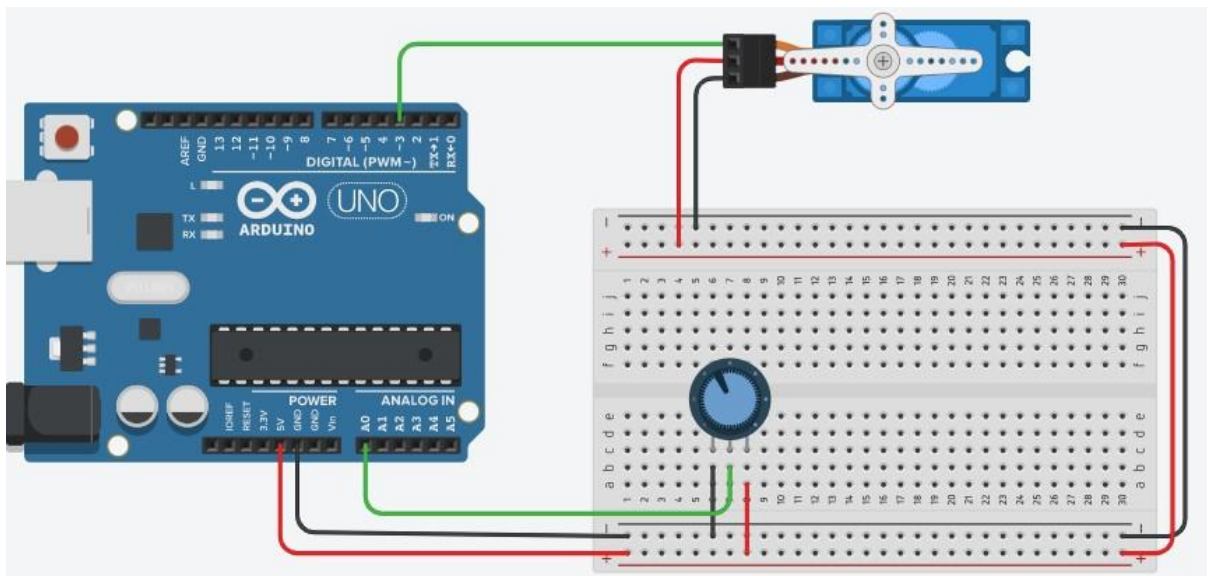
Program Title : Smart Irrigation

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 :

IoT LAB - 15

```cpp
#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.