Program No. – 16

Program Title - Smart irrigation system

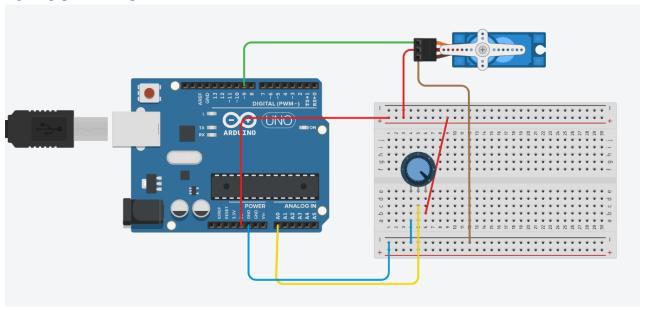
AIM

Design a smart irrigation system (Potentiometer, Servo motor shaft).

HARDWARES REQUIRED

- Arduino Board
- Breadboard Small
- Potentiometer
- Servo motor shaft

CIRCUIT DIAGRAM



WRITE-UP

PFA

CODE

```
#include <Servo.h>
Servo myservo; // create servo object to control a servo
// twelve servo objects can be created on most boards
int pos = 0; // variable to store the servo position
int sensorPin = A0; // select the input pin for the potentiometer
int sensorValue = 0; // variable to store the value coming from the sensor
void setup() {
myservo.attach(3); // attaches the servo on pin 9 to the servo object
Serial.begin(9600);
}
void loop() {
// read the value from the sensor:
sensorValue = analogRead(sensorPin);
Serial.println (sensorValue);
if(sensorValue>500)
{
for (pos = 0; pos \leq 180; pos += 1) { // goes from 0 degrees to 180
degrees
```

OUTPUT

Designed a smart irrigation system (Potentiometer, Servo motor shaft).

