Program no: 16

Program title: Smart irrigation system

Aim:- Design a smart irrigation system

Hardware :- Arduino board
Bread board small
Potentio meter
servo motor shaft

Write-up

```
#include <Servo.h>

servo my servo;

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)

  my servo.write (pos);
     delay (15);

  }

  for (pos = 180; pos >= 0; pos -= 1)

    my servo.write (pos);
       delay (15);

    }

  }

delay (1000);

  }
```