

PROGRAM NO. : #15Name: Shreya Laddhe  
USN: 18MIECS105PROGRAM TITLE : Smart irrigation systemAIM : Design a smart irrigation system (Potentiometer, Servo motor shaft)Hardware Required:

- Arduino
- Breadboard
- Potentiometer
- Servo motor shaft

CIRCUIT DIAGRAM CODE:

```
#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);
```

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Name: Shreya Laddha  
USN: JNM18CS103

```
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);
}
```

Teacher's Signature : Shreya