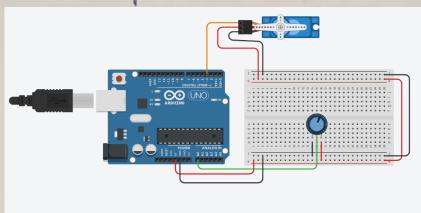
PROGRAM-16

Title: Smart Irrigation System:

Aim: To check the water content in the soil and open the value.

Hardware Required: Ardwino Board, Bread board, Micro Nervo, Potentiometer, Wires

Circuit Diagram:



```
Code:
#Include (servo.h)

Servo myserwo;
int is Opened = 0;

void setupe)

myservo. attach (3);

Serial. legis (9600);

void loop()

int moisture Val = analyRead (Ao);

Serial. println (moisture Val);
```

```
y (moisture Val >= 512)

'y (is Opened == 0)

my Servo. write (90);

is Opened == 1;

clse

y (is Opened == 1)

my Servo. write (0);

is Opened = 0;

delay (1000);
```

Observations / Conclusion:

If the water level in soil is less than 512, then the value gots open or else will be closed.