TEAM ID: PNT2022TMID36433

Project Title : SmartFarmer - IoT Enabled Smart Farming Application

SPRINT-1

Program:

```
const int sensor_pin = A1;
int c=0;
void setup()
{
pinMode(2, INPUT);
 pinMode(3, OUTPUT);
}
void loop()
{
if (digitalRead(2) == HIGH)
{
digitalWrite(3, HIGH);
  delay(10000);
  }
Serial.begin(9600);
delay(1000);
Serial.begin(9600);
float moisture_percentage;
 int sensor_analog;
sensor_analog = analogRead(A2);
moisture_percentage = ( 100 - ( (sensor_analog/1023.00) *100 ) );
float m=moisture_percentage;
  delay(1000);
if(m<40)
{
while(m<40)
{
```

```
 digitalWrite(3,HIGH);
sensor_analog = analogRead(sensor_pin);
moisture_percentage = ( 100 - ( (sensor_analog/1023.00) *100 ) );
m=moisture_percentage;
delay(1000);
}
digitalWrite(3,LOW);
}
if(c>=0)
{
  Serial.begin(9600);
  delay(15000);
Serial.begin(9600);
  delay(1000);
Serial.print("\r");
  delay(1000);
delay(1000);
}
}
```