

SPRINT 1

Date	13 November 2022
Team ID	PNT2022TMID22393
Project Name	IOT Enabled Smart Farming Application

Codings to connect sensors with Arduino:

```
int resist, celsius;
```

```
void setup() {
```

```
    Serial.begin(9600);
```

```
    pinMode(3, OUTPUT);
```

```
    pinMode(A0, INPUT);
```

```
    pinMode(6, INPUT);
```

```
    pinMode(10, INPUT);
```

```
    pinMode(11, INPUT);
```

```
}
```

```
void loop() {
```

```
    resist = (analogRead(6)+analogRead(10)+analogRead(11))/3;
```

```
    celsius = map(((analogRead(A0) - 20) * 3.04), 0, 1023, 40, 125);
```

```
    if (resist > 350 || celsius > 45)
```

```
    {
```

```
        Serial.println("Pump ON");
```

```
        Serial.println(resist);
```

```
        Serial.println(celsius);
```

```
        Serial.println();
```

```
        digitalWrite(3, LOW);
```

```
}  
else  
{  
  Serial.println("Pump OFF");  
  Serial.println(resist);  
    Serial.println(celsius);  
  Serial.println();  
  digitalWrite(3, HIGH);  
}  
delay(100);  
}
```

