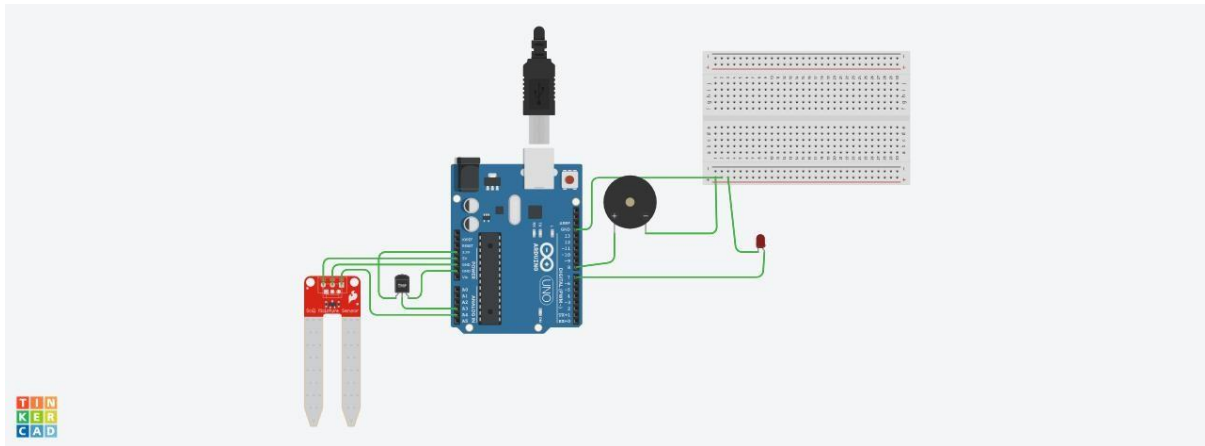


ASSIGNMENT 1

Tinkercad link - <https://www.tinkercad.com/things/6ZdqfxlSul7-ibm>

Image:



CODE:

```
// C++ code
```

```
//
```

```
int x = 0;
```

```
void setup()
```

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

```
  pinMode(A4, INPUT);
```

```
  pinMode(A3, INPUT);
```

```
  pinMode(7, OUTPUT);
```

```
  pinMode(8, OUTPUT);
```

```
}
```

```
void loop()
```

```
{
```

```
  if (analogRead(A3) > 222 || analogRead(A4) > 222) {
```

```
    Serial.println(analogRead(A3));
```

```
    digitalWrite(7,HIGH);
```

```
    digitalWrite(8,HIGH);
```

```
} else {  
  Serial.println(analogRead(A3));  
  digitalWrite(7,LOW);  
  digitalWrite(8,LOW);  
}  
  
delay(1000);  
// Delay a little bit to improve simulation performance  
}
```

Description:

The circuit has a temperature sensor along with a soil moisture sensor. The threshold of sensors are set to 222. On either of the sensors reaching the threshold the buzzer and led goes high .It is frequently checked with a delay of 1000 .