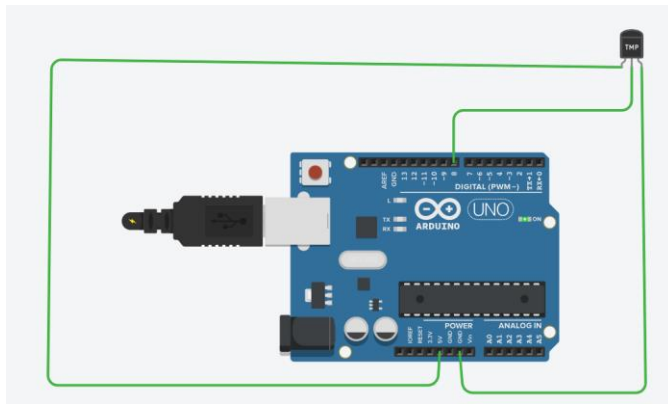# Weather Monitoring System

Components Required:

Arduino Uno

 DHT 11

Circuit Diagram:

Procedure:

1. Connect the temperature sensor and HC-05 Bluetooth to the Arduino Uno board as shown in the above circuit diagram.

2. Open the Arduino IDE and select the port and board accordingly.

3. Upload the code to arduino uno, run it and check its output in the serial monitor.

 4. Download Arduino BlueController on the smartphone and connect the bluetooth of the smartphone with HC-05 module.

5. Select a dashboard from the app and the output will be displayed in the dashboard.

Program:

```
int OUTPin = 8;

void setup()

{ Serial.begin(9600); //start serial communication

pinMode(OUTPin, OUTPUT); //define pins

}
```

```
void loop()

{

bluetooth();

sensor();

}

void bluetooth()

{

if (Serial.available() > 0)

{ info = Serial.read();

}

 }

void sensor()

{

 int temperature, humidity;

digitalWrite(OUTPin, HIGH); //trigger the wave

delay(10);

digitalWrite(OUTPin, LOW);

Serial.println(Temperature);

delay(2000);

}
```

Output: