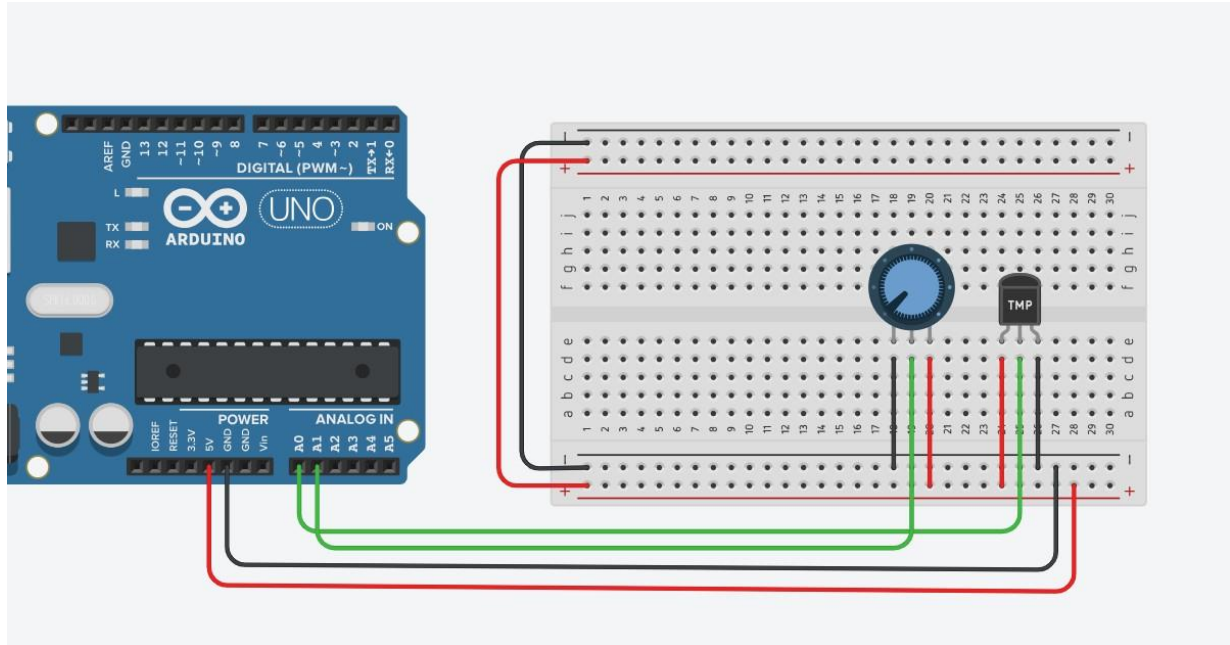**Interface temperature and humidity sensor with arduino and showthe results on serial monitor.**
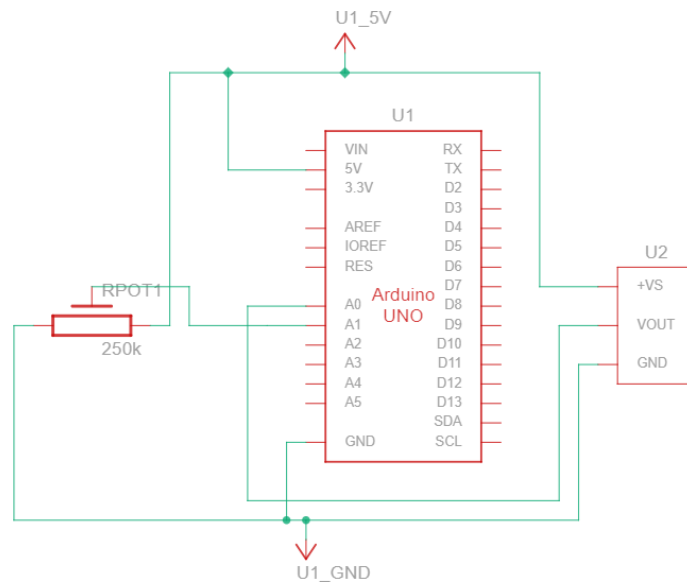
Circuit Diagram:

Code:
```
const int analogIn = A0;
int humiditysensorOutput = 0;
int RawValue= 0;
double Voltage = 0;
double tempC = 0;
double tempF = 0;
void setup(){
Serial.begin(9600);
pinMode(A1, INPUT);
}
void loop(){
RawValue = analogRead(analogIn);
Voltage = (RawValue / 1023.0) * 5000;
tempC = (Voltage-500) * 0.1;
tempF = (tempC * 1.8) + 32;
Serial.print("Raw Value = " );
Serial.print(RawValue);
Serial.print("\t milli volts = ");
Serial.print(Voltage,0); //
Serial.print("\t Temperature in C = ");
Serial.print(tempC,1);
Serial.print("\t Temperature in F = ");
Serial.println(tempF,1);
```

```
humiditysensorOutput =
Serial.print("Humidity: ");
Serial.print(map(humiditysensorOutput, 0, 1023, 10, 70));
Serial.println("%");
analogRead(A1);
delay(5000);
}
```
Schematic Diagram:

Output: