```
int ThermistorPin = A0; //this is the pin that is selected
float Vo; //This is the voltage between the thermistor and resistor
float R1 = 10000; //Resistance of resistor
float logR2, R2, T, T_c, T_f; //R2 is the resistance of the thermistor
and T is the temperature
float A = 0.00128663, B = 0.000217271, C = 8.47847e-8; //These are the
coefficients we will use from the Steinhart equation to calculate
temperature

void setup() {
Serial.begin(9600);
}

void loop() {

  Vo = analogRead(ThermistorPin); //Takes the input from the pin we
select on the breadboard
  R2 = R1 * (1023.0 / (float)Vo - 1.0); //The resistance of the
thermistor will be calculated so that we are using that resistance at
that temperature
  logR2 = log(R2); //This is just a coefficient we need for the equation
  T = (1.0 / (A + (B*logR2) + (C*logR2*logR2*logR2))); //This calculates
the temperature
  T_c = T - 273.15; //This converts the temperature to celcius
  T_f = (T_c * 9.0)/ 5.0 + 32.0; //This converts the temperature from
celcius to farenheit

  Serial.print("Temperature: ");
  Serial.print(T_f); //Prints temperature
  Serial.println(" F");
  Serial.print("Resistance: ");
  Serial.print(R2); //Prints resistance
  Serial.println(" ohms");
  delay(500);
}
```