Temperature in fahrenheit and Max / Min temp

```
int sensorPin = A0;        // LM35 connected to analog pin A0
float temperatureC;        // Current temperature in Celsius
float temperatureF;        // Current temperature in Fahrenheit
float maxTemp = -1000;     // Initialize max temperature very low
float minTemp = 1000;      // Initialize min temperature very high

void setup() {
  Serial.begin(9600);      // Start serial communication
  Serial.println("Temperature Monitoring Started...");
}

void loop() {
  int sensorValue = analogRead(sensorPin);  // Read analog input (0–1023)
  temperatureC = (sensorValue * 5.0 * 100.0) / 1024.0;  // Convert to Celsius
  temperatureF = (temperatureC * 9.0 / 5.0) + 32.0;     // Convert to
Fahrenheit

  // Update max and min values
  if (temperatureC > maxTemp) {
    maxTemp = temperatureC;
  }
  if (temperatureC < minTemp) {
```

```
  minTemp = temperatureC;
 }

 // Display readings
 Serial.print("Current Temperature: ");
 Serial.print(temperatureC);
 Serial.print(" °C  |  ");
 Serial.print(temperatureF);
 Serial.println(" °F");

 Serial.print("Maximum Temperature: ");
 Serial.print(maxTemp);
 Serial.print(" °C  |  ");
 Serial.print((maxTemp * 9.0 / 5.0) + 32.0);
 Serial.println(" °F");

 Serial.print("Minimum Temperature: ");
 Serial.print(minTemp);
 Serial.print(" °C  |  ");
 Serial.print((minTemp * 9.0 / 5.0) + 32.0);
 Serial.println(" °F");

 Serial.println("----------------------------");
 delay(2000); // Wait 2 seconds before next reading
}
```

Connections: