Debugging Fun Sensor2

Scenario: Pablo wrote the following code for his Human Sensor Project. He wants each possible sensor value to call one of the four light pattern functions:

```
loop() {
    sensorValue = analogRead(sensor);
      if (sensorValue >= 900) {
            lightPattern1();
    }
      if (sensorValue >= 800 && sensorValue < 900) {
        lightPattern2();
      }
      if (sensorValue >= 500 && sensorValue < 600) {
        lightPattern3();
    }
      if (sensorValue < 500) {
        lightPattern4();
    }
}
```

1. **Predict:** Looking at the code snippet above, what do you think the behavior might be?

2. **Test:** Discuss with another group or test out the code. What does the code actually do?

3. **Identify the bug:** Why do you think the code behaves this way instead of as intended?

4. **Revise:** How might you fix the code? Write your revised code or edit the code snippet at the top to fix the bug.

5. **Retest:** Test your solution and revise again if necessary.