

## Debugging Fun Sensor3

**Scenario:** Harume wrote the following code for her Human Sensor Project.

She wants to see:

- lightPattern3() for sensor readings greater than or equal to 1000
- lightPattern2() for readings between 750 and 1000 including 750
- lightPattern1() for readings between 500 and 750 including 500
- lightPattern4() for readings below 500

Help her debug her code:

```
loop() {  
  sensorValue = analogRead(sensor);  
  if(sensorValue >= 500) {  
    lightPattern1();  
  }  
  else if(sensorValue >= 750) {  
    lightPattern2();  
  }  
  else if (sensorValue >= 1000) {  
    lightPattern3();  
  }  
  else {  
    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?

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