

# ***AP Computer Science A***

## ***Assignment - Creating an Interesting Class, Part 1***

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Algorithm:

- a. Read each numbered item below.
  - b. Do what is requested.
  - c. When done, submit your responses as directed.
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### ***Creating your own classes: Evaluating Your Understanding***

#### **1. Lamp**

Your task is to create a Lamp class.

Welcome to your first day as an summer intern at Gaggle!

You've been assigned to the IoT team (Internet of Things); they are currently working in smart plugs. These are power outlets that can be controlled programmatically.

At your interview for the position, you did really well on the technical Java questions that you were asked.

Now that you're part of the team, they'd like you to write a class that they will use to simulate a test of the smart plugs. You need something plugged into the outlet to see if the plug works, right?

You have been given a design document that describes the Java class that you are tasked to write.

Implement this class as described by the documentation in the public interface of the design document that you've been given.

Thoroughly test your class with appropriate method calls in a Main class that is a client of Lamp.

Submit a document containing your project share URL.