Python Alien Detector

Time required: 60 minutes

- Comment each line of code as shown in the tutorials and other code examples.
- Follow all directions carefully and accurately.
- Think of the directions as minimum requirements.

Pseudocode

1. Write pseudocode for the exercise
2. Save it in a document
3. Submit with the assignment

Requirements

The United States Space Force Strategic Command has hired you to create a program to detect and track the different types of aliens that visit our planet. They would like you to build a prototype before they give you the contract. The contract is worth several millions dollars, you want to get this program right.

1. Create an Alien class.
    a. Include at least three properties of your choice, such as the number of eyes the Alien has.
    b. Include a constructor that requires a value for each data field.
    c. Override the **__str__** that returns a string containing a complete description of the Alien. (An explicit **__str_)** method replaces the default **__str__** method that is inherited from Object.)
    d. Add a detector method that shows your detector detecting aliens.
2. Save the file as **alien.py**
3. Create two classes - Martian and Jupiterian that descend from Alien parent class.
    a. Supply each with a constructor that sets the Alien data fields with values you choose.
    b. Add a child constructor that adds another property for each child class.

4. Save the files as **martian.py** and **jupiterian.py**
5. Create an application that instantiates one Martian and one Jupiterian.
6. Print the object and display the results.

Save the application as **create_aliens.py**

Example application run:

```
Martian: Alien height is 7 feet.
   It has 3 legs and 4 eyes.
Jupiterian: Alien height is 2 feet.
   It has 8 legs and 2 eyes.
```

Assignment Submission

1. Attach the pseudocode.
2. Attach the program files.
3. Attach screenshots showing the successful operation of the program.
4. Submit in Blackboard.