

Purpose: Classes**Learning outcomes:** 1, 2 and 3**Time:** submit before 5pm Friday of Week 10.**Resources:** MyLO: lecture notes and tutorial materials**Description:**

The Galactic Government learned of your amazing work with NASA and rockets, and you were their number one choice to develop an employee database for Galactic employees.

Task:

Write a class named `Employee` that holds the following data about an employee in four attributes: Employee name (`name`), staff identification number (`idNumber`), department (`department`), and the staff member's job title (`jobTitle`). Once you have written the `Employee` class, write **another** program that then imports and uses the `Employee` class to create **five** `Employee` objects to hold the following data:

Name	ID Number	Department	Job Title
Darth Vader	123456	Empire	Supreme Leader
Luke Skywalker	246810	Rebellion	Red 5 Leader
Han Solo	135790	Acquisitions	Chief Smuggler
Leia Organa	888888	Royalty	Rebel Leader
Chewbacca	111112	IT	CTO

The program should then display the employee information in a formatted, tabular style (similar to the example output below). Your output must query each of the `Employee` objects for their data, for example, use the `getName()` method for the employee's name. Recall to left-justify a string using print placeholders, use `"%-widths"`.

The `Employee` class should have an `__init__()` method that creates and assigns values to these 4 attributes (`name`, `idNumber`, `department`, `jobTitle`).

The `Employee` class must also define the following 'set' and 'get' methods:

'set' methods (even if you don't use them all):

- `setName(self, value)`
Assign the employee `name` to be `value`
- `setEmployeeID(self, value)`
Assign the employee's `idNumber` to be `value`
- `setDepartment(self, value)`
Assign the employee's `department` to be `value`
- `setTitle(self, value)`
Assign the employee's `jobTitle` to be `value`

'get' methods:

- `getName(self)`
get the employee `name`
- `getEmployeeID(self)`
get the employee's `idNumber`
- `getDepartment(self)`
get the employee's `department`
- `getTitle(self)`
get the employee's `jobTitle`

Finally, create **another** program called `employeeDatabase.py` that imports and uses the `Employee` class to create **five** `Employee` objects and print the output as shown below:

Example Output

Name	ID Number	Department	Job Title
Darth Vader	123456	Empire	Supreme Leader
Luke Skywalker	246810	Rebellion	Red 5 Leader
Han Solo	135790	Acquisitions	Chief Smuggler
Leia Organa	888888	Royalty	Princess
Chewbacca	111112	IT	CTO

Submission Details

Save the class source code to a file called `employee.py`, and the code that creates and displays employees to a file called `employeeDatabase.py` and upload them to the MyLO submission folder for this task.

Assessment Criteria & Hints

A completed submission **must**:

1. Include comments about the program purpose and the author of the program (your name)
2. Define a class **Employee** at the start of the program
3. Define all 'set' and 'get' methods, as well as a correct `__init__` method
4. Use meaningful names for instance variables, starting with a lower case
5. Define a 'driver' program `employeeDatabase.py` that uses the Employee class to create and display 5 employees
6. Submit both of the source files and a screenshot of the output