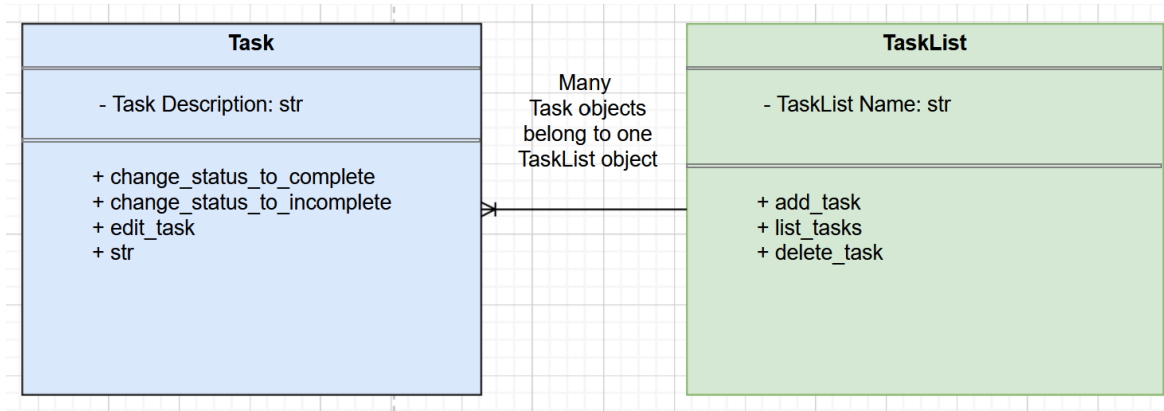**Name:** Leah Nicholson
Date: Tuesday March 4th, 2025
Class: DEV128
Description: UML Diagram for: Design and Implement Business Tier Classes (Part 1)

UML Diagram:

Classes:

Task
TaskList

Attributes:

	Attribute	Description
Task	Task Description	a string (the written task)
TaskList	TaskList Name	a string (the overall name of the list, e.g. 'Personal')

Methods:

	Method	Description
Task	change_status_to_complete	Updates the status to True (boolean).
	change_status_to_incomplete	Updates the status to False (boolean).
	edit_task	Disallows new descriptions being empty. If not empty, sets new description.
	__str__(self)	Checks boolean value of self.task_status and updates status variable accordingly. Formats the string to display as the Task description and status.

TaskList	add_task	Disallows empty task description. Creates instance of Task with description. Adds the instance to the self.tasks list, which holds Tasks.
	delete_task	Deletes an item from self.tasks list using the index of the deleted_task_number passed to this function.
	list_tasks	Returns the list of tasks (unformatted).

Special Notes on Read-Only:

I originally thought that Task needed task numbers to be passed to it, and would have made this a read-only. However, I realized that the numbers are likely part of the Presentation Tier. I included numbering in the client code which can be removed if numbering does not belong in Business Tier.

One possible item that could be read-only would be list names, though it seems as though those should be changeable based on their nature.