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Jupyter C1M5L2_Methods_and_Classes_V3 Last Checkpoint: Last Sunday at 7:28 PM (autosaved)



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Practice Notebook: Methods and Classes

The code below defines an Elevator class. The elevator has a current floor, it also has a top and a bottom floor that are the minimum and maximum floors it can go to. Fill in the blanks to make the elevator go through the floors requested.

This class is pretty empty and doesn't do much. To test whether your Elevator class is working correctly, run the code blocks below.

```
In [188]: elevator.up()
elevator.current #should output 1
already on 10 floor 10

Out[188]: 10

In [186]: elevator.down()
elevator.current #should output 0

on -1 floor

Out[186]: -1

In [187]: elevator.go_to(10)
elevator.current #should output 10

10

Out[187]: 10
```

If you get a NameError message, be sure to run the Elevator class definition code block first. If you get an AttributeError message, be sure to initialize self-current in your Elevator class.

Once you've made the above methods output 1, 0 and 10, you've successfully coded the Elevator class and its methods. Great work!

For the up and down methods, did you take into account the top and bottom floors? Keep in mind that the elevator shouldn't go above the top floor or below the bottom floor. To check that out, try the code below and verify if it's working as expected. If it's not, then go back and modify the methods so that this code behaves correctly.

```
In [189]:

# Go to the top floor. Try to go up, it should stay. Then go down.
elevator.go.to(18)
elevator.dy()
elevator.down()
print(elevator.current) # should be 9

# # Go to the bottom floor. Try to go down, it should stay. Then go up.
elevator.go.(-1)
elevator.down()
elevator.down()
elevator.up()
elevator.up()
print(elevator.current) # should be 1

10
already on 10 floor 10
```

already on 10 floor 10 9 9 -1 on -1 floor on -1 floor 0 1 1

Now add the **str** method to your *Elevator* class definition above so that when printing the elevator using the **print()** method, we get the current floor together with a message. For example, in the 5th floor it should say "Current floor: 5"

In [125]: elevator.go_to(5)
print(elevator)

current floor 5

Remember. Python uses the default method, that prints the position where the object is stored in the computer's memory, if your output is something like:

<main.Elevator object at 0x7ff6a9ff3fd0>

Then you will need to add the special str method, which returns the string that you want to print. Try again until you get the desired output, "Current floor. 5".

Once you have successfully produced the desired output, you are all done with this practice notebook. Awesomel