

```
1  # Created by: Mr. Coxall
2  # Created on: Sep 2016
3  # Created for: ICS3U
4  # This class is used to define a transportation object
5
6  #from abc import ABCMeta, abstractmethod, abstractproperty
7
8  class Transportation:
9      # this class defines a transportation object
10     #__metaclass__ = ABCMeta
11
12     # class variable shared by all instances
13
14     def __init__(self):
15         # private fields
16
17         self.__speed = 0
18
19     # properties
20     #@abstractproperty
21     def get_speed(self):
22         # get the speed property
23         return self.__speed
24
25
26     # private methods
27
28     # public methods
29
30     #@abstractmethod
31     def current_state(self):
32         # returns the current state of the transportation thing as
33         # a string
34
35         # this variable is local to this method
36         return_string = 'Speed: ' + str(self.__speed)
37
38         return return_string
```

New bike1

Speed: 0 Cadence: 0 Speed: Gear: 2 # of seats: 2

Current speed: 8

Set gear to 7

Current gear: 7

Current speed: 13

Set cadence to 60

Current cadence: 60

Current speed: 15

Apply breaks by 3

Speed: 0 Cadence: 60 Speed: Gear: 7 # of seats: 2

New bike2

Speed: 0 Cadence: 0 Speed: Gear: 2

The starting cadence is: 0

The starting speed is: 5

Set cadence to 90

Current speed: 10

Set gear to 3

Current gear: 3

Current speed: 15

Set cadence to 45

Current cadence: 45

Current speed: 13

Apply break 12

Speed: 0 Cadence: 45 Speed: Gear: 3