CSC148 Worksheet 6 Solution

Hyungmo Gu

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Question 1

• The two classes already defined are: Vehicle and SuperDuperManager

The additional classes required to create for this exercise are: Car, Helicopter and MagicCarpet

Car, Helicopter and MagicCarpet are child classes of Vehicle.

Question 2

- a. The following are attributes possessed by all vehicles
 - type
 - initial_position
 - moves_to
 - move_diagonally
 - fuel_usage

Correct Solution:

The following are attributes possessed by all vehicles

- position
- fuel
- b. No. Referencing the following code in worksheet_6_starter_code.py,

we can come up with the following examples.

- Vehicle(100, (10,20))
- Vehicle(50, (5, 10))

Here, we can see the two vehicles have different value of fuel and initial position.

c. fuel_needed not implemented because each child classes have different fuel consumption rate, and the method is to be defined by the child classes by overriding it.

Question 3

Question 4

Question 5

Question 6

Question 7

Question 8