

# Python Vehicle OOP

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Time required: 180 minutes

- Comment each line of code as shown in the tutorials and other code examples.
- Follow all directions carefully and accurately.
- Think of the directions as minimum requirements.

## Pseudocode

1. Write pseudocode or TODO for the exercise
2. Save it in a document
3. Submit with the assignment

## Requirements

Create an OOP program that models a vehicle of your choice. ANY vehicle real or fictitious. Use your imagination!

- You can use multiple classes if you wish
- 4 attributes
- 4 methods
- User input

## Examples

```
+-----+
|  Guillermo's Great Big Airline  |
+-----+
Enter Pilot's name: Bill
Enter Model: 747
Enter seating capacity: 3
Enter maximum speed: 150
Bill 747 with seating capacity: 3 maximum speed: 150.

(T)ake off | (A)ccellerate | (D)ecelerate | (L)and | E(x)it t
747 is taking off.
Your plane is traveling 100 mph

(T)ake off | (A)ccellerate | (D)ecelerate | (L)and | E(x)it a
Current speed: 150

(T)ake off | (A)ccellerate | (D)ecelerate | (L)and | E(x)it a
You can't go any faster!!!
Current speed: 150

(T)ake off | (A)ccellerate | (D)ecelerate | (L)and | E(x)it d
Current speed: 100

(T)ake off | (A)ccellerate | (D)ecelerate | (L)and | E(x)it l
747 is safely landing with 3 passengers.
Your plane is traveling 0 mph

(T)ake off | (A)ccellerate | (D)ecelerate | (L)and | E(x)it x
Thanks for flying Guillermo's Great Big Airline!
```

```

+-----+
| Flying Saucer Alien Abduction |
+-----+
Enter alien's name: Beepozoidis
Enter color: green
Enter size: small
Enter maximum speed: 30000
Beepozoidis has a green flying saucer that is small with a maximum speed of 30000.

(T)ake off | (A)ccelerate | (D)ecelerate | A(b)uct | (L)and | E(x)it t
Flying saucer is taking off.

(T)ake off | (A)ccelerate | (D)ecelerate | A(b)uct | (L)and | E(x)it a
Current speed: 50

(T)ake off | (A)ccelerate | (D)ecelerate | A(b)uct | (L)and | E(x)it a
Current speed: 100

(T)ake off | (A)ccelerate | (D)ecelerate | A(b)uct | (L)and | E(x)it d
Current speed: 50

(T)ake off | (A)ccelerate | (D)ecelerate | A(b)uct | (L)and | E(x)it b
The human has been abducted.

(T)ake off | (A)ccelerate | (D)ecelerate | A(b)uct | (L)and | E(x)it l
Flying saucer is landing.

(T)ake off | (A)ccelerate | (D)ecelerate | A(b)uct | (L)and | E(x)it x
Thank you for participating in our alien abduction.

```

## Challenges

Make this program something worth showing off in your GitHub repository.

- Include a link to your GitHub repository showing a series of commits.
  - Pseudocode or TODO
  - Build and test the program one attribute and method at a time.
- Use Rich text formatting, ASCII art, sounds, or whatever you can come up with.
- Anything else you can think of to show off what you have learned.
- Mention what you added in the Blackboard submission.

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## Assignment Submission

1. Attach the pseudocode or TODO.
2. Attach the program files.

3. Attach screenshots showing the successful operation of the program.
4. Submit in Blackboard.