

Innovation Factories C/AV Challenge

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1 Class Index	1
1 Class Index	1
1.1 Class List	1
2 File Index	1
2.1 File List	1
3 Class Documentation	1
3.1 car.Car Class Reference	1
3.1.1 Detailed Description	2
3.1.2 Member Function Documentation	2
4 File Documentation	3
4.1 car.py File Reference	3
4.1.1 Detailed Description	3
Index	5

1 Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

car.Car	1
An ADT that represents a Car	

2 File Index

2.1 File List

Here is a list of all documented files with brief descriptions:

car.py	3
Provides the Abstract Data Type for Car	

3 Class Documentation

3.1 car.Car Class Reference

An ADT that represents a **Car**.

Public Member Functions

- `def __init__ (self, ID, speed)`
this is the initializer method
- `def get_ID (self)`
this method is used to get the unique ID of the car
- `def get_speed (self)`
this method is used to get the current speed of the car
- `def update_speed (self, modifier)`
this method is used to update the current speed of the car
- `def __str__ (self)`
this method is return the car object and it's information in the form of a string

Public Attributes

- **speed**

3.1.1 Detailed Description

An ADT that represents a [Car](#).

Parameters

<i>ID</i>	is a unique identifier that is linked to each car
<i>speed</i>	is the speed of the car

3.1.2 Member Function Documentation

3.1.2.1 __str__()

```
def car.Car.__str__ (  
    self )
```

this method is return the car object and it's information in the form of a string

Returns

the car's information in the form of a string

3.1.2.2 get_ID()

```
def car.Car.get_ID (  
    self )
```

this method is used to get the unique ID of the car

Returns

the ID of the car

3.1.2.3 get_speed()

```
def car.Car.get_speed (
    self )
```

this method is used to get the current speed of the car

Returns

the speed of the car

3.1.2.4 update_speed()

```
def car.Car.update_speed (
    self,
    modifier )
```

this method is used to update the current speed of the car

Parameters

<i>modifier</i>	is the multiplier that we apply to the current speed to get to the new speed
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Returns

the current of the car after the update

The documentation for this class was generated from the following file:

- [car.py](#)

4 File Documentation

4.1 car.py File Reference

Provides the Abstract Data Type for Car.

Classes

- class [car.Car](#)
An ADT that represents a [Car](#).

4.1.1 Detailed Description

Provides the Abstract Data Type for Car.

Author

Mostafa Mohsen, Chris Vishnu, Seif El Tobgy, Saif Fadhel

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Index

- `__str__`
 - `car.Car`, [2](#)
- `car.Car`, [1](#)
 - `__str__`, [2](#)
 - `get_ID`, [2](#)
 - `get_speed`, [2](#)
 - `update_speed`, [3](#)
- `car.py`, [3](#)
- `get_ID`
 - `car.Car`, [2](#)
- `get_speed`
 - `car.Car`, [2](#)
- `update_speed`
 - `car.Car`, [3](#)