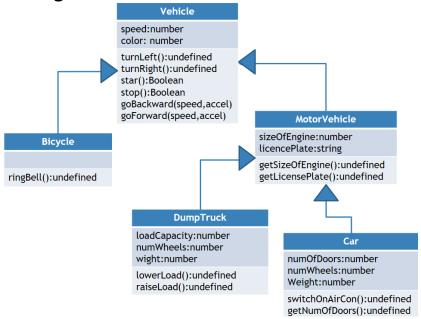
## Advanced JavaScript Lab 4

- 1.a. Make proper updates in previous of generating Rectangle objects,
  - Rectangle Constructor should inherit from Shape Constructor
  - Create your Square constructor that inherits from Rectangle.
  - Create a Class Property that counts number of generated Square objects.
  - Prevent creating any object from shape, allow creation of only rectangles and square (make shape abstract class)
  - All of the properties should be defined using accessor and/or data descriptor, prevent them from being deleted, iterated or being modified.
  - Use .toString() to display each instance's dimensions, its area and perimeter.
  - Implement .valueof() so that if there is more than one rectangle object we can run arithmetic operation as follows: if we have rectangle1 of area 60m2 and rectangle2 of 37m2 then rectangle1 + rectangle2 should return 97 and rectangle1 rectangle2 should return 23.
  - you can add any property you need.

1.b Bonus: allow creation of only one square and one rectangle

2. Build your own custom constructors that implement the given

simple class diagram



- each class should have the following
  - o public and private properties and method;
  - You should ensure that properties are set with the required data type state in the above diagram otherwise throw an exception.
  - All of the properties should be defined using accessor and/or data descriptor, prevent them from being deleted, iterated or being modified.
  - Override both .toString() and valueOf()
  - Make sure you are implementing inheritance properly.
  - You can add any property you need.

## Self-Study:

- Object.create()
- Object.freeze()
- Object.seal()
- Find out how to make an object immutable
- Function currying