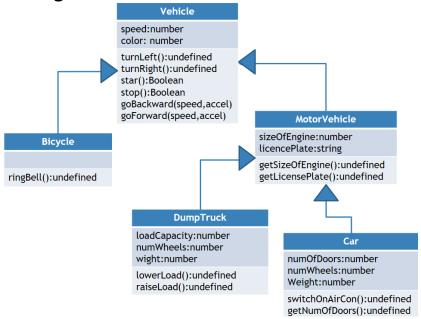
Advanced JavaScript Lab 3

- 1.a. Make proper updates in (lab#1 task#5) your previous code 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