

Web Client Programming

Assignment 7

Due: Next Section. (*one day before if you submit by email*)

Notes: This assignment is individual assignment, every student should complete it by himself.

1. True or False? Why?

- a. In JavaScript, the attributes of a property are directly accessible.
- b. Accessor properties contain a single location for a data value.
- c. Object elements can be named with numerical identifiers
- d. There are four attributes for each property, Configurable, Enumerable, Writable, and value.
- e. If the property identifier starts with underscore, this means you can't access it directly.
- f. There is no classes in JavaScript. However, function patterns can mimic it properly.
- g. The major downside of constructors is that methods are created once for each instance.
- h. The benefit of using the prototype is that all of its properties and methods are shared among object instances.

2. Create an object Person, then add the constant property "name" with value="Mona", and add the non-enumerable property age with value=30.

3. Read the following code then answer the questions:

```
<script>
  function car()
  {
    this.brand="BMW";
    this.model=2014
    this.sayBrand=function(){
      alert(this.brand);
    }
  }
</script>
```

- a. Rewrite this constructor as a factory pattern.
- b. Rewrite this constructor as a prototype pattern.
- c. What is the advantages/disadvantages between Factory, Constructor, and Prototype patterns.