Review Activity 2

Writing Class Constructors

1) Consider the following code for a C++ class called **`WinterServiceVehicle`**:

```
class WinterServiceVehicle {
   string type;
   string brand;
   string owner;
   double value;
   int    yearPurchased;
   double WinterServiceVehicleConstructor();
public:
   string getType();
   string getBrand();
   string getOwner();
   double getValue();
   int    getYearPurchased();
};
```

Syntax error1: _____

_____

Syntax error2: _____

_____

Operational error1: _____

_____

Operational error2: _____

_____

Identify two syntax and two operational (usage) errors regarding the constructor for this class. Fill in these errors in the text boxes provided above. Assume that no other functions except the ones specified above are available for this class, and there are no static instances of this class available.

2) Write a corrected version of the **`WinterServiceVehicle`** class. Include three different constructors, including one with no parameters, one where some of the parameters are set, and one where all the parameters are set. Include constructor definition for each. At least one constructor should have the values set using the style specified in Lecture Notes #1.

```
class WinterServiceVehicle {
   string type;
   string brand;
   string owner;
   double value;
   int    yearPurchased;
```

(additional space for the corrected version of the **`WinterServiceVehicle`** class)

3) Consider the following C++ code that uses a corrected version of **`WinterServiceVehicle:`**

```
string WSV::getBrand() {
   return Brand;
}

int main() {
   WinterServiceVehicle *s;
   cout << s.getBrand;
   cout << s.owner;
   cout << s.getPrice();
   ...
```

Syntax error1: _____
_____

Syntax error2: _____
_____

Syntax error3: _____
_____

Identify three syntax errors in the given code. Fill in these errors in the appropriate text boxes provided above (i.e., fill in the values in the boxes that point to the affected code segments).

Note that there are no **`typedef`**s in the code.