CSYE 6200 Quiz 3 – Dec. 2, 2019 NUID

| Name | |
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1) Based on the comments and code, insert the proper keywords below:
                                                             [6]
public abstract class Vehicle {
 public String name; // Can be seen by all external
classes and methods
 private double counter; // Can only be seen only
within the same class
protected double kpl; // Can be seen within the
package and by inherited classes
* Constructor - Can be instantiated using the new keyword
*/
 __public___ Vehicle(String name) {
   this.name name;
   kpl = 10.1;
   counter = 0;
   }
public abstract double getLoadFactor();
public double getRange() {
    double capacity = 70.0; // liters
    return kpl * capacity;
   }
}
                                                              [4]
2) Complete the following sentences:
A class that is defined within another class is called an __inner (or nested) __ class.
In Java, the <u>static</u> keyword may be used on a variable, a method, or a code
block.
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Use the following class to answer the question below:
public class SimRunnable implements Runnable {
  public void run() {
          doSim();
   }
}
4) In the space below, make a thread that creates the Runnable class and begins its
execution:
                                                                [4]
public class TestThread {
    public static void main (String args[] ) {
    // Answer: Write your code below
    SimRunnable sRun = new SimRunnable(); // +1 Runnable
                                               // +2 Thread+run
    Thread thread = new Thread(sRun);
                                                // +1 start()
    Thread.start();
  } // main
} // class TestThread
5) Are the following lines of code valid?
                                                                [3]
                                  Answer: Circle TRUE or FALSE below
public class EnumTest {
     enum Category { ELECTRICAL, LUMBER, PLUMBING }
     Category cat = Category.LUMBER;
      public EnumTest() {
           System.out.println("Current cat is " + cat +
                       " ordinal value " + cat.ordinal());
           setCat(Category.valueOf("LUMBER"));// TRUE / FALSE
           setCat(Category. HOUSEHOLD); // TRUE / FALSE
           setCat(Category.ELECTRICAL);
                                              // TRUE / FALSE
    public void setCat(Category cat) { this.cat = cat; }
}
6) Enter the best answer to complete the sentence:
                                                                 [3]
The extends keyword represents the 0-0 tenant of ___inheritance____.
The __Observer __ pattern allows a subscribing class to receive events.
The private keyword supports the 0-0 tenant of ___encapsulation____.
```