**GVSU CIS-162 – Class & Objects Activity**

1. To support Data Encapsulation, instance variables should be \_\_\_\_\_\_\_\_ and methods are normally \_\_\_\_\_\_\_\_\_\_
2. private, private
3. public, private
4. public, public
5. private, public

2. What is the 'scope' of an instance variable?

1. a single method
2. the entire class
3. the entire application

# 3. What is the 'scope' of a local variable?

1. a method
2. the entire class
3. the entire application

# Consider a Calculator class that stores a single value. What is the best instance variable definition?

1. public double myValue;
2. private int myValue;
3. private String myValue;
4. private double myValue;

# Within the Calculator class, which of the following is the best method header for adding to the total.

1. private void add (double val)
2. public void add (double val)
3. public double add ( )
4. public void add (int val)

# Within the Calculator class, which of the following is the best statement for the method given an instance variable of 'myValue' public void minus (double pVal) { // what goes here? }

1. myValue = myValue - pVal;
2. myValue = pVal;
3. pVal = myValue - pVal;
4. myValue = myValue + pVal;

# Within the Calculator class, which of the following is the best statement for the method given an instance variable of 'myValue' public void clear ( ) { // what goes here? }

1. return myValue;
2. myValue = pVal;
3. myValue = 0.0;
4. myValue = myValue;

# Within the Calculator class, which of the following is the best statement for the method given an instance variable of 'myValue' public double getValue ( ) { // what goes here? }

1. myValue = 0;
2. return pVal;
3. return Calculator;
4. return myValue;

# Within the Calculator class, which of the following is the best statement for the method given an instance variable of 'myValue' public void divide (double pVal){ // what goes here? }

1. myValue = pVal / myValue;
2. pVal = myValue / pVal;
3. myValue = myValue \* pVal;
4. None of the above