

NAME: _____

C# PROGRAMMING

2nd MARKING PERIOD MIDTERM

DECEMBER 12, 2013

MR. SCIAME

Print the test out first. Answer all questions. Then correct the test as instructed. Save and print the completed test.

PART ONE – Multiple Choice: Delete the 3 wrong answers, and leave only the correct answer. (30 Points)

1. How many CheckBoxes in a GUI can be selected at once?
a) 0 b) 1 c) 4 d) any number
2. The text that appears alongside a CheckBox is referred to as the:
a) CheckBox label b) CheckBox name c) CheckBox value d) CheckBox data
3. The first argument passed to the MessageBox.Show method is :
a) the text displayed in the dialog's title bar b) a constant representing the Buttons displayed in the dialog
c) the text displayed inside the dialog d) a constant representing the icon that appears in the dialog
4. You can specify the Button(s) and icon to be displayed in a message dialog by using the MessageBoxButtons and _____ constants.
a) MessageIcon b) MessageBoxImages c) MessageBoxPicture d) MessageBoxIcon
5. _____ are used to create complex conditions.
a) Assignment operators b) Activity diagrams c) Logical operators d) Formatting codes
6. If a while statement's loop-continuation condition is initially false, how many times will the body execute?
a) 0 b) 1 c) infinite d) There is no way to know in advance.
7. The _____ statement executes until its loop-continuation condition becomes false.
a) while b) until c) loop d) whileTrue
8. A(n) _____ loop occurs when a condition in a while loop never becomes false.
a) infinite b) undefined c) nested d) indefinite
9. A _____ is a variable that helps control the number of times that a set of statements will execute.
a) repeater b) counter c) loop d) repetition control statement
10. The _____ control allows users to add and view items in a list.
a) ListItems b) SelectBox c) ListBox d) ViewBox
11. A(n) _____ occurs when a loop-continuation condition in a while loop never becomes false.
a) infinite loop b) counter-controlled loop c) control statement d) nested control statement
12. Set the _____ property to true to enable a Button.
a) Disabled b) Focus c) Enabled d) ButtonEnabled
13. The _____ statement executes at least once and continues executing until its loop continuation condition becomes false.
a) do...loop b) while c) do...while d) loop...while
14. Which of these loop conditions describes the loop "repeat until i is greater than five"?
a) do...until (i > 5) b) while (i <= 5) c) while (i < 5) d) do...while (i == 5)
15. The _____ method transfers the focus to a control.
a) GetFocus b) Focus c) Transfer d) Activate

PART TWO: Debug the following program. Each line that has a number and line at the end of it has an error. The error can be syntax or logic. Correct the error. Rewrite the correct answer in place of the original code (30):

private void btnCalculate_Click (object sender, System.EventArgs e)	This is ok
(This is #1
int intLimit = zero;	This is #2
int intCounter == 1;	This is #3
lstResults.Items.Empty();	This is #4
intLimit = Int32.Parse(txtInput);	This is #5
lstResults.Items.Add("N/tN^2/tN^3");	This is #6
// calculate and display square and cube of 1 to intLimit	
while (intCounter <= intLimit) ;	This is #7
{	
lstResults.Items.Add(intCounter = "\t" + Math.Pow(intCounter, 2) + "\t" +	
Math.Pow(intCounter, 3));	This is # 8
intCounter--;	This is # 9
// increment counter	
)	This is #10

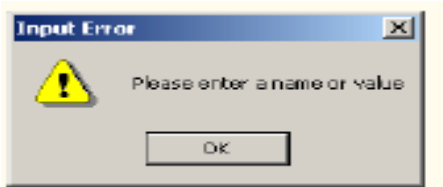
PART THREE – Answer the following questions. Insert your answers after each question (5 Points each)

- Write an If-Else segment of code based on a variable called average which will do one of the following:
 - Print "You made the Principal's List if Average > 95.
 - Print "You made the Optimate Society " if Average > 90
 - Otherwise Print "You need a 90 to make an honors list"
- The variable payment has a value of 193.092. Write an output line that will show in the GUI variable lblPayment \$193.09
- Write a line of code that clears a listbox. You can call the listbox whatever you want.
- You call Mr. Sciame over. You claim that the computer froze when you ran a program. This is what you wrote:

```
x = 1;
while (x <= 5)
product = product * x;
x++;
lstWhateverYouWant.Items.Add(x + "\t\t" + product);
```

Mr. Sciame walks away, his head obviously throbbing. Rewrite the code with corrections.

- Write the 4 ways to increment the variable X by 1.
- Write the code that creates the following MessageBox:



8. Write a While loop that will Write out “Mr. Sciame Rocks” 1000 times in a list box called ThisIsReal.

9. Answer the following questions:

(A) How many lines of Code are in a while loop?

(B) To put more than 1 line in a loop, you offset the lines using { and }. What do you call the lines of code between the { and }?

C, D and E are based on the following:

```
X = 1;           //(C) What is this called?  
while (X <= 100), //(D) the statement inside the parentheses is called what?  
{  
    X++;        //(E) What is this statement called?  
}
```

10. Write an infinite loop in a list box that prints the lyric “This is the song that never ends....”.

PORTFOLIO QUESTION

This is your portfolio question for the week. Copy it into a separate file, answer it, save it, and print it out.

(2.5 points each) Rewrite the code so that it is correct:

- ```
1. int intx = 1;
 while(!(intx <=10))
 {
 intTotal += intx;
 intx++;
 }
```
- ```
2.      int LCV = 1;  
        while (LCV <= 100)  
        {  
            intTotal += LCV;  
        }  
        LCV++;
```
- ```
3. int LCV = 1000;
 while(LCV > 1)
 {
 lblAnswer.Text = Convert.ToString(LCV);
 LCV++;
 }
```
- ```
4.      int LCV = 1;  
        while (LCV < 5) //Do the loop 5 times!  
        {  
            lstNumbers.Items.Add(LCV);  
            LCV++ ;  
        }
```