**Computer Programming - Final Exam Review 2017**

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| **Program Name** | **Program Description** | **Completed?** |
| *ReviewCAT* | The word "CAT" (all caps) is displayed on the screen. The word is made out of labels made from code only. It should take 9 labels. The word appears when a button, also created from code, is clicked upon. |  |
| *ReviewAge* | The user will enter their name and age into two separate textboxes. When a button is clicked, the program will output "<Person's name> is <age> years old" in a nearby label. It will also output an additional statement based on the age:  If the age is less than 18 - "He/she is a minor."  If the age is 18 to 64 - "He/she is an adult."  If the age is 65 or more - "He/she is a senior citizen." |  |
| *ReviewSumItUp* | The user enters a positive integer into a textbox. When a button is clicked, the program will output into a label the sum of all numbers from 1 to that number, if that number is positive. For example, if the user types 5 into the textboxes, when the button is clicked, the label should output 15, since 1 + 2 + 3 + 4 + 5 = 15. If the number is negative or zero, no calculation is performed and a message box appears telling them to enter a positive integer. This one works most easily with a well-written FOR loop. |  |
| *ReviewDrawing* | C:\Users\Bill Dixon\Desktop\Comp Prog\cylinder.jpgUsing the drawing commands, create this: |  |
| *ReviewAddition* | The program will generate two random numbers between 1 and 10 and output them as part of an addition problem in a label in the format: *6 + 3 = ?* The user enters their answer into a textbox and when a button is clicked the program will tell them if their answer is correct or wrong via a message box. When the message box is closed, a new random problem appears. |  |
| *ReviewTriangle* | This program requires only a label and a timer. The goal of this program is to get your label to move in an equilateral triangular fashion. The label should continuously loop in this triangle. |  |
| *ReviewRainbow* | The form contains a button, a textbox and a label. The user will type in a color into the textbox and when the button is clicked the backcolor of the label will change to that color. The program should work for the following colors: red, green, blue, yellow, orange and purple. |  |
| *ReviewScreensaver* | The form size is 300 x 400 viewable pixels. You have a 20x20 label with a red backcolor and no text. It starts at location (40, 80) and begins traveling up and to the right, 5 pixels vertically and horizontally each tick, using a timer. Each time it reaches the edge of the form, it will bounce back in the appropriate opposite direction. |  |