**CPSC-24500: Object-Oriented Programming**

**Week 7 Questions (24 pts)**

Instructions: Answer the questions below by highlighting the best answer or by writing the answer in the text box immediately following the question. Submit a copy of this document to the Blackboard Homework link by the end of the day Sunday. The file should be named “FirstNameLastNameWeek7” with a .docx” extension. For example, if Eric Pogue was submitting the document, the file name would be “EricPogueWeek7.docx”.

This is an individual assignment and answers are not to be shared.

1. What should the name of the document be that you submit? See above Instructions.
   1. 2017SpringW07QuestionsAssignment.docx
   2. “EricPogueWeek7.docx”
   3. “FirstNameLastNameWeek7.docx”
   4. I should use my first and my last name with capital letters where appropriate, add a “Week7” after my last name, and make sure there is a “.docx” extension at the end
2. In Visual Studio 2017, complete at least the first 10 steps of the “Create a Picture Viewer” tutorial that is available at the following [[link]](https://msdn.microsoft.com/en-us/library/dd492135.aspx). This will likely take one to three hours to complete.

Provide a brief overview of the steps you completed and your thoughts on the resulting application. (8 pts)

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1. In a few sentences describe the methods that C# provides for data hiding. (3 pts)

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1. Describe your preferred method of hiding C# data and why you prefer that method. (3 pts.)

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1. Common Internet text file types include?
   1. HTML
   2. XML
   3. JSON
   4. All of the above
2. What is the threadsafe definition for a C# ArrayList
   1. private static ArrayList primeArrayList = new ArrayList();
   2. private primeArrayList = new ArrayList();
   3. myArraylist = ArrayList
   4. public int[] primeArrayList = new ArrayList();
   5. All of the above
3. If a single threaded implementation of FastPrime ran in 10 seconds, how fast would we expect a 5-threaded implementation to run? And why? (3 pts)

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1. Given “private ArrayList myList = new ArrayList()”, what would be the command you would use to sort the list? (2 pts)

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1. Is it possible that sorting the list of objects could through and exception? Explain? (3 pts)

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