CPSC-24500: Object-Oriented Programming Week 7 Programming Assignment (24 pts)

After completing the "Create a Picture Viewer" tutorial, you will develop InternetShapeDraw. The InternetShapeDraw application will download an XML file from the Internet, parse the XML, and draw the shapes contained in the XML file to a .NET (C#) window.

#	Requirement	Points
1	Complete the Visual Studio "Create a Picture Viewer" tutorial [link]. This is identified and	-
	scored in question #2 of the Week 7 Questions Assignment.	
2	The InternetShapeDraw application must be developed entirely in Visual Studio 2017 and	6
	C#, be named "InternetShapeDraw", and successfully run in a standard MS Windows	
	environment.	
3	Download an XML file from the Internet. The URL for the file is:	4
	http://www.epogue.info/CPSC-24500/Week07/InternetShapeDraw.xml	
	If you open this URL link in your browser, you should be able to view the XML file contents.	
	Note that the file may change during the week so make your solution generic and text it	
-	multiple times.	
4	Parse the contents of the file to extract the shapes.	4
5	Store the shapes contained in the XML file in a ShapesModel class. I suggest implementing	4
	C# classes for Shapes, Rectangles, and Ovals with Rectangle and Ovals descending from	
	Shape like what we did in the Java ShapesLibrary. Then putting those shapes in an	
	ArrayList.	
6	Create a view class that can draw Rectangles and Ovals.	4
7	Bonus points for implementing a Controller class that links Model and Controller together.	6*
	Any attempt to create a separate Controller class will get you at least a point or two.	
8	Submit two files. The first file should be the single C# file named "Program.cs" that was	2
	used in the application. You should include your full name in a comment at the beginning of	
	the C# file that you submit. The second file should be the release executable called	
	"InternetShapeDraw.exe". You should have testing this executable by double clicking on it	
	from Windows File Explorer.	

If your solution does not compile and execute without errors when it is submitted, you will lose 6 points AND I will send it back to you to fix and resubmit before I attempt to continue grading the assignment.

Do not copy another student's work. I may use MOSS to detect plagiarism and will not ask for clarification if MOSS concludes you have copied the assignment.

Tackle this problem gradually and make sure that you review the examples that we cover in class. The main goal of our discussions, lectures, and examples this week are intended to allow you to successfully deliver this application. Also, don't hesitate to post something on our discussion board or to reach out to me directly if you need assistance.

I hope that you have learned by this point in the class to pace yourself and not attempt to do the assignment in one night.

Good luck!