

EEOS 472 – Programming for GIScience Applications – Spring 2011

Exercise 11A

Additional Instructions/Notes

1. For all exercises in this course, you will want to make a copy of the exercise .mxd to your H:\ space and open that, rather than using the one in the course data directory on S:\ because the exercises almost always involve customizing the project document, which you cannot do to the one on S:\, since you do not have write access there.

Question 11A-1 (2 marks)

What's the difference between how objects from (regular) classes are created and how objects from coclasses are created?

Question 11A-2 (1 mark)

In the ex11a.mxd project, what is the position number of the DC Area layer (using the indexing scheme used in VBA for ArcGIS)?

Exercise 11B

Additional Instructions/Notes

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Question 11B-1 (2 marks)

Once you have written the code for all three UIButtons (BluePage, WhitePage, and SandPage), you will notice that the three subroutines are basically identical, except for the three values assigned to pColor.Red, pColor.Green, and pColor.Blue. Is there a way we have could have structured this more efficiently so we wouldn't have to have all that duplicate (actually, triplicate) code? Describe how this could be done more efficiently.

Exercise 12A

Additional Instructions/Notes

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12. You may encounter an “Unable to display help” error. This is due to the absence of the Desktop Software Developer Kit. Instead of pressing F1 to bring up ArcGIS Developer Help, you can search the Online Developer Help at: <http://resources.esri.com/arcgisdesktop/index.cfm?fa=forDevelopers>

Question 12A-1 (2 marks)

What is the difference between a Button and a Tool?

Exercise 12B

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Question 12B-1 (2 marks)

What do we use QueryInterface to do? How can we use VBA to do the QueryInterface operation using less lines of code?

Exercise 12C

Additional Instructions/Notes

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Question 12C-1 (1 marks)

Why would you want enable or disable a particular Command or Tool under varying circumstances?