**Take-Home: Quiz 9 (15 pts) – More OOP!**

Using Canvas <https://canvas.wsu.edu/>, please submit your solution to the correct quiz folder. Your solution should be a .pdf file with the name <your last name>\_quiz9.pdf and uploaded. To upload your solution, please navigate to your correct Canvas ***lab*** course space. Select the “Assignments” link in the main left menu bar. Navigate to the correct quiz submission folder. Click the “Start Assignment” button. Click the “Upload File” button. Choose the appropriate .pdf file with your solution. Finally, click the “Submit Assignment” button.

1. **(5 pts)** What is an abstract class (2 pts)? What is the purpose of an abstract class (3 pts)?
2. **(5 pts)** What is Big-O notation? Discuss space and time complexity.
3. **(5 pts)** What is UML? Explain.