**ITEC 136 Homework 8 Name: \_\_Danielle Hooven\_\_\_\_\_\_**

1. **[10 points]** Please complete the following program.

**class** Rectangle:  
 """Rectangle class using width and height"""  
  
 **def** \_\_init\_\_(self, initW, initH):  
 self.width = initW  
 self.height = initH  
  
 **def** area(self):  
 # Calculate and return the area  
   
   
 #create a new method for the perimeter  
 #...  
  
 #create a new method for the diagonal  
 #...  
  
  
a = Rectangle(4,5)  
**print**("The area of your rectangle is:", a.area())  
**print**("The perimeter of your rectangle is:", a.perimeter())  
**print**("The diagonal length of your rectangle is:", a.diagonal())

1. **[10 points]** Please write a class **BankAccount** for depositing and withdrawing money. There should be two methods. The method for withdrawing money should give warning message if the balance is not enough. Do not update the balance if insufficient money in the bank account. In addition, write a method to display the account balance. You can overwrite the \_\_str\_\_ method to display the bank balance.

**Note**: Please write the whole program from scratch yourself, without looking at any examples. This exercise it intentionally kept simple for that reason.

1. **[5 points]** Weekly Learning and Reflection  
   In two to three paragraphs of prose (i.e. sentences, not bullet lists) using APA style citations if needed, summarize and interact with the content that was covered in the introductory videos provided for this course. In your summary, you should highlight the major topics, theories, practices, and knowledge that were covered. Your summary should also interact with the material through personal observations, reflections, and applications to the field of study. In particular, highlight what surprised, enlightened, or otherwise engaged you. Make sure to include at least one thing that you’re still confused about. In other words, you should think and write critically not just about what was presented but also what you have learned through the session. Feel free to ask questions in this as well since it will be returned to you with answers.