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# COP 3014 Development Diary

1. From the problem description, create a list of all classes that you can identify. For each class, list the associated member variables and identify an initial set of member functions.

> We must create a Circle, Triangle and Rectangle class. These classes will do various calculations. The associated member values for the Circle class is the radius. Triangle class includes base and height as its member values and the Rectangle class includes length and width. Some of the member functions would include the getters and setter for each class since we must be able to attain and return and value. The addition member functions will include computing area, circumference, diagonal length and others.

2. List out a set of steps that you will take to implement your solution to the problem. Each step refers to an increment of the program that you will be creating. It is recommended to

> First, I will create the declarations for all the functions in different files. I will then move to creating some of the definitions of the member functions associated with these classes. Once all the different classes and definitions are written, then I will create my main in which I will type out all of the last commands to test the classes I just created.

3. Once you have finished implementing your solution, reflect on the process that you followed. Did you wind up with the same classes as you initially identified? Did you need to change any of the functionality or add unexpected details? Did you have to deviate from your plan? Write a description of any details that needed to change as you worked on your solution

> Once the solution was implemented, it became clear that there would be lots of bugs to fix. In addition, it was difficult to figure out the proper syntax for a few things. Such as properly guarding a file and also which header files need to be put around quotation marks. Nevertheless, after hours of working out the bugs and figuring out the right syntax the implemented solution was finished.