

Agenda

- Opening Prayer
- Scripture
- Q&A
 - Review Project
- Introduction to Classes
- Looking Forward



Scripture

Proverbs 3:5-6

Trust in the Lord with all thine heart; and lean not unto thine own understanding.

In all thy ways acknowledge him, and he shall direct thy paths.



Classes and Encapsulation

- A class is a custom data type that contains both data (member variables) and functions (methods).
- The methods in a class provide the user of the class with an interface to interact with the class.
- Member variables are frequently hidden from the user requiring the use of methods to either access or manipulate the variables.
- The goal of a class is to hide the implementation from the user and provide only an interface of methods (and maybe some member variables) to use.

Circle

-radius : float

+getArea():float

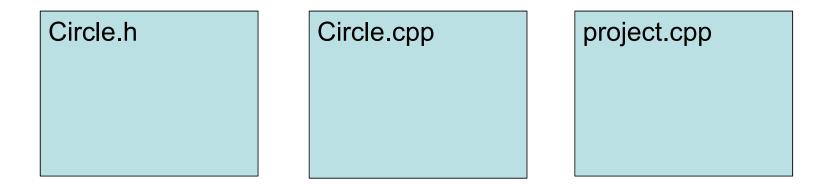
+setRadius(float radius)

+getRadius(): float



File Structure

- When you work with a class, you will have at least 3 files:
 - Header File Contains the interface for the class
 - Class File Contains the implementation for the class
 - Project File Contains the main function that will use the class





Looking Forward

- End of Today
 - Submit Project 3
 - Last chance to submit Checkpoints A and B
- Tuesday
 - 04 Reading Look in I-Learn
 - Section 2.0 Encapsulation Design
 - Section 2.2 Class Syntax
 - Section 1.5 Subsection about Inline Functions
 - · Additional Reading in I-Learn
 - Submit Checkpoint A

