



Homework 1

Kuan-Ting Lai
2020/3/16

Description

- Objective

- Write a program that can receive object type, width, length or radius, and calculate its area

- Input

- There are 3 shape types: circle, triangle, rectangle
- Example
 - `area.out [type] [w] [l]`

- Create a “shapes.h” file and define four classes with area() function

- Base class: Shape
- Derived class: Circle, Triangle, Rectangle

Compile Your Code

- Linux
 - We include a Makefile. Just type “make”
- Windows with gcc
 - Type “g++ main.cpp” in command line window
- Your code must be compiled by GNU C++!

Evaluation

- Test your code

- Example, execute the command on Linux

- `kt@ntut:~/oop/hw1$./area.out rectangle 2 4.5`

- Output

- `kt@ntut:~/oop/hw1$ 9`

- Submit shapes.h to i-School

- We will run a batch file to test your code on Linux automatically