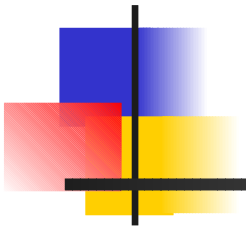
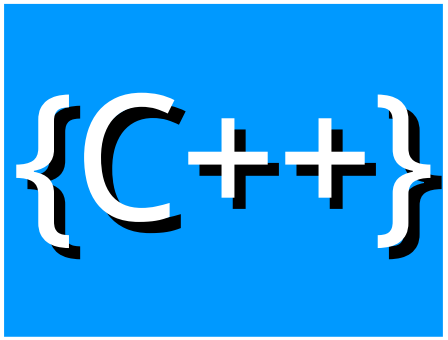
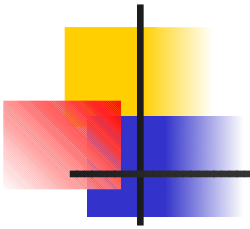


Functions

Week 5



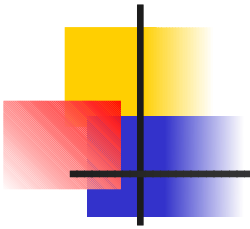
Yang-Cheng Chang
Yuan-Ze University
yczhang@saturn.yzu.edu.tw



Example

- Define a function hypotenuse that calculates the hypotenuse of a right triangle when the other two sides are given.
  - The function should take two double arguments and return the hypotenuse as a double.
  - Use this function in a program to determine the hypotenuse for each of the triangles shown below.

Triangle	Side 1	Side 2
1	3.0	4.0
2	5.0	12.0
3	8.0	15.0



Week 5 Assignment

- Implement the following functions:
  - Function ConvertToCelsius returns the Celsius equivalent of a Fahrenheit temperature.
  - Function ConvertToFahrenheit returns the Fahrenheit equivalent of a Celsius temperature.

Week 5 Assignment

- Use these two functions to write a program that prints two table showing
  - The Fahrenheit equivalents of all Celsius temperatures.(Celsius to Fahrenheit)
  - The Celsius equivalents of all Fahrenheit temperatures.(Fahrenheit to Celsius)
- The user can select the type and range of this conversion
  - Type: 1. Celsius to Fahrenheit, 2. Fahrenheit to Celsius
  - Range: upper bond and lower bond

Input example

Please choose which conversion you want to use:
1.Celsius to Fahrenheit
2. Fahrenheit to Celsius
1
Please input the lower bond and upper bond of the temperature you want to convert:
lower bond: 0
upper bond: 100

The tabular format

- Print the outputs in a tabular format.

Celsius	Fahrenheit	Celsius	Fahrenheit
0.0	32.0	51.0	123.8
1.0	33.8	52.0	125.6
2.0	35.6	53.0	127.4
....		....	
49.0	120.2	100.0	212.0
50.0	122.0		