

# CPSC 231 Tutorial #7

[michael-hung.ca/teaching](http://michael-hung.ca/teaching)

# Reminders

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## **TODAY**

Quiz #4

## **FRIDAY**

Assignment #2 Paired Component

*Assignment 1 marks are up.*

*Quiz #3 will be returned by Thursday.*

**Find a partner if you're struggling!**

# Variable Scope

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## **LOCAL VARIABLES**

A variable declared inside a function() cannot be accessed outside of the function

## **GLOBAL VARIABLES**

Must use 'global' keyword to access inside functions

# Functions

# Functions

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- Parameters and Arguments

```
def function1(param_1, param_2, ... , param_256):  
    # something
```

```
function1(arg_1, arg_2, ... , arg_256)
```

- Return Values

Allows you to communicate a result back to the code that called the function.

# Gambler's Ruin Simulation

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A gambler makes bets of \$1 until he reaches a certain goal or goes broke. On each bet, he either gains or loses \$1.

## INPUT

- stake            integer denoting total cash owned
- goal            integer denoting cash goal to stop betting at
- trials           integer denoting number of trials to try

## OUTPUT

- Win Rate (%)
- Average number of bets per trial

# Debugging in VS Code



## Next Time: Lists and Aliases