Python Coding Dojo

Brain Leke Betetchouh & 'Wole Solana

April 7, 2015

What are Katas?

Exercise One: Fizz Buzz

■ Stage One:

Write a program that prints the numbers from 1 to 100. But for multiples of three print "Fizz" instead of the number and for the multiples of five print "Buzz". For numbers which are multiples of both three and five print "FizzBuzz"

■ Stage Two:

- A number is fizz if it is divisible by 3 or if it has a 3 in it
- A number is buzz if it is divisible by 5 or if it has a 5 in it

Exercise Two: Prime Factors

- Stage One:
 - Factorize a positive integer number into its prime factors e.g.
 - 2 : [2]
 - 4 : [2, 2]
 - 9 : [3, 3]
 - 20 : [2, 2, 5]
- Stage Two:
 - Return the prime factors without repetition e.g.
 - 20 : [2, 5]
 - 32 : [2]
 - 40 : [2, 5]

Exercise Three: Roman Numerals

■ Stage One:

■ The Romans wrote numbers using letters - I, V, X, L, C, D, M. (notice these letters have lots of straight lines and are hence easy to hack into stone tablets). The Kata says you should write a function to convert from normal numbers to Roman Numerals: e.g.

etc. There is no need to be able to convert numbers larger than about 3000.

■ Stage Two:

 Write a function to convert in the other direction, i.e. roman numeral to digits

Remember...

- Test first
- Think in an Object Oriented Way