

Assignment 1

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January 25, 2014

1 Binding and Scoping

1.1 a)

Pi on line 4 is bound to line 3, where pi is declared as 3.14159. Line 4 is in the function circumference so any declaration of pi prior to the function is ignored. The pi on line 7 is bound to line 1 because there is no brackets for the function area, so the pi it uses is a global variable.

1.2 b)

The use of x on line 3, 6, 10, and 13 are all bound at line 1. Each are bound by the global variable because var x is not declared elsewhere, except for lines 8 and 9. But since the declaration of x is restricted to the brackets on line 7 and 10, it doesn't effect the other variable x's.

2 Scala Basics: Typing

(b, 1): tuple because

b: list

x: int

or

(b, a + 2): tuple because

b: list

a: list

x: int