Unit 3c: Scala Functions

1 Functions

In Java "Functions" can only be defined as methods in a class.

Scala functions can be defined as methods in a class, but can also be defined outside a class (there's more to functional programming that this, though!); we can enter and call a function in the REPL. The syntax for parameters is rather like Java syntax "reversed"; the function returns the last expression evaluated and so we don't need *return* statement.

Note the "=" sign before the opening {.

1.1 Default and named parameters

In Java you need to provide values for *all* parameters when calling a method; overloaded methods can implement different parameter lists – provides support for calling with "incomplete parameter lists"

```
public int add(int a, int b) {
    return a + b;
}

public int add(int a) {
    return a + 10;
}

int result1 = calculator.add(3,4);

int result2 = calculator.add(3);
```

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calculator is an instance of the class in which these methods are defined; result1 = 7 and result2 = 13

Scala supports default and named parameters in function/method calls.

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