

## Intermediate Scala

### Practical Exercises

#### Chapter 4: Implicits and Type Classes

1. Define a type to represent a date, consisting of day, month and year. Define a second type to represent a time as hours, minutes and seconds.

Using regular expressions, develop implicit conversions from the `String` type to your date type, and to your time type.

2. Create a type class that offers a method to generate a random value of a specified type. There should be a single method, **`generate`**, to do this.

Provide an instance of the type class for `Int` (for now use an appropriate random number generator to do this).

Create further instances of the type class to generate random **`Boolean`** values, also random **`Pair`** (**`Tuple2`**) values.

Can you define an instance that generates random `List[Int]` values?