Pure functions are deterministic

```
// Non-deterministic
case class NonDeterministicClass(var n : Int = 0) {
    def whatDoIDo(i: Int) : Int = {
        n = n + 1
        i + n
        }
}

val c1 = NonDeterministicClass()
val f1 = c1.whatDoIDo(10) // 11
val f2 = c1.whatDoIDo(10) // 12
```

Harder to test

Pure functions are

- 1. Total
- 2. Deterministic
- 3. Without side-effects