

# PARAMETERIZED TESTS

- Does my unit converter produces expected output for various arguments?

```
typealias Meter = Long
typealias Kilometer = Double

class DistanceConverter {
    fun parse(distance: Meter): Kilometer {
        return when {
            distance in 0..999 -> distance.div(1000.0)
            distance in 1000..10_000 -> distance.div(1000.0)
            distance > 10_000 -> distance.div(1000.0)
            else -> throw UnsupportedOperationException()
        }
    }
}
```

```

@RunWith(Parameterized::class)
class DistanceConverterTest(val input: Input){
    companion object {
        @JvmStatic
        @Parameterized.Parameters
        fun data(): Collection<Input> {
            return listOf(
                Input(500, 0.5),
                Input(750, 0.8)
            )
        }
    }

    @Test
    fun `check distance parser`() {
        val converter = DistanceConverter()

        val actual = converter.parse(input.parameter)
        val expected = input.expected

        assertEquals(actual, expected, 0.0)
    }
}

data class Input(val parameter: Meter, val expected: Kilometer)

```