Equality

Structural Equality (== Operator)

When you run a == b, this is converted to:

```
if (a == null) {
    return (b == null)
} else {
    return a.equals(b)
}
```

Writing .equals() explicitly

```
class Distance(private val km: Int, private val metres: Int) {
  override fun equals(other: Any?): Boolean =
        (other is Distance) &&
        (totalDistance() == other.totalDistance())
  private fun totalDistance(): Int = km * 1000 + metres
}
```

Writing .equals() implicitly

Use a data class

Referential Equality (=== Operator)

When you run a === b, the program will check whether a and b refer to the same object.