

20 OOP pillars and declarative – Part 2 —Answers

Answers

Work through these after trying the questions yourself.

20.1 Encapsulation.

20.2 Inheritance.

20.3 The same method call runs different code on different objects.

20.4 What (not how).

20.5 Pure functions (no side effects).

20.6 Shared code is written once in the superclass, and every subclass inherits it. So common behaviour does not have to be copied into each class —the subclasses just add or change what is different.

20.7 It states *what* result is wanted —the names of students with grade 'A' —and leaves the database to decide *how* to find them. An imperative version would have to write the loop and the test step by step.