COMPUTER SCIENCE TRIPOS Part IA – 2025 – Paper 1

4 Object-Oriented Programming (rkh23)

- (a) State the Open-Closed Principle and explain how it reduces the risk of regressions as software evolves [2 marks]
- (b) Identify the four key principles of Object Oriented Programming and explain how each supports the open-closed principle [8 marks]
- (c) Consider the Java method below. For each of the method bodies given, state whether they will compile and explain your reasoning.