1995 Paper 4 Question 1

Further Modula-3

Describe the facilities provided in Modula-3 for abstraction through object inheritance and partial revelations of opaque types. [8 marks]

Illustrate your answer by reference to the Trestle toolkit, mentioning the relationship between VBT.T, VBT.Leaf, VBT.Split, Filter.T and their sub-types. [4 marks]

Explain how overriding methods such as mouse, position and keyboard in a sub-type of VBT.T can be used to define a new class of window. [4 marks]

How is initialisation of super-types handled?

[4 marks]