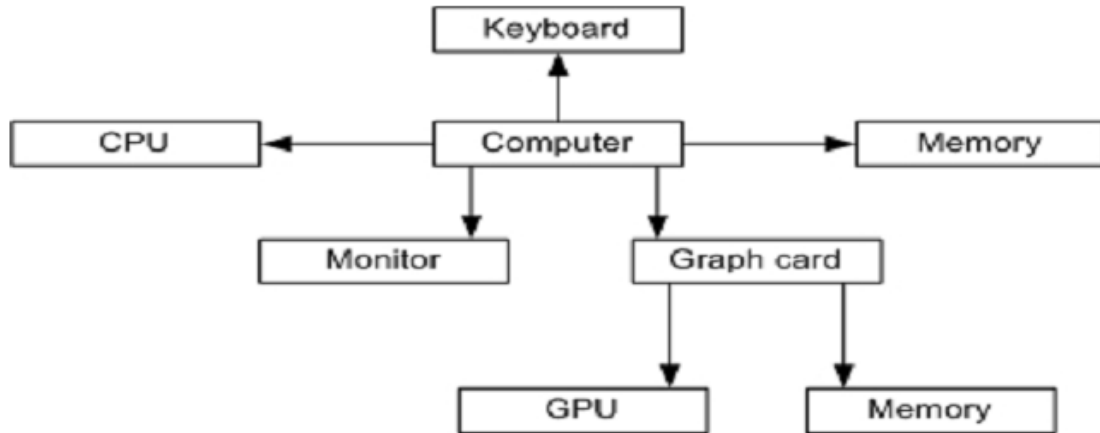


# TD 9

Consider the following computer architecture:



In the graph, *CPU*, *GPU*, *memory*, *monitor* and *keyboard* are atomic components, while *graph card* and *computer* are composites. Every atomic component has a price associated with it. The price of a composite part is the sum of all its components. For example, the price of the *computer* is the sum of the price of the *monitor*, *CPU*, *keyboard*, *memory* and the *graph card*, and the price of the *graph card* is the sum of the price of the *GPU* and the *memory*.

## Question:

Use composite pattern to model the computer architecture. Then write a visitor using the visitor pattern to calculate the price of all the memory components (the price of other kinds of components are ignored) in computer architecture.

Draw the class diagram and implement the code.