## **Exercise 1: Component Diagram**

- 1. The component **image.java** depends on the **ImageObserver** interface of the component **component.java**.— Draw the corresponding component diagram.
- 2. Consider an **online shopping subsystem (Online Store)** that contains three components related to online purchasing: **Search\_Engine, Cart**, and **Authentication**.
  - The Search\_Engine component allows product search by providing the interface
     Product\_Search, and it uses the required interface Inventory\_Search, which is provided by the
     Inventory component.
  - The **Cart** component provides the **Online\_Purchase** interface and uses the **Order\_Management** interface provided by the **Orders** component when placing an order.
  - The **User\_Session** interface is provided by the **Authentication** component and exposed by the **Online Store** subsystem. It can also be used by the **Cart** component.
- Draw the corresponding component diagram.

## **Exercise 2: Deployment Diagram**

A hardware architecture consists of a server, a kiosk, and a console.

The server uses a **RAID-mounted hard disk tower**.

The console communicates with the server through a **100b Ethernet connection**, and with the kiosk through an **RS232C link**.

The server characteristics are:

- Pentium Processor
- 4 GB RAM
- 17-inch monitor
- Draw the corresponding deployment diagram.