QUIZ 2

1. **Describe the concept separating interface from implementation.**

   - Easier to modify programs
   - Hints about other implementation; private members
   - Header files
     - Class definitions and function prototypes
     - Included in each file using class; **#include**
     - File extension **.h**
   - Source-code files
     - Member function definitions
     - Same base name; Convention
     - Compiled and linked

2. **What are the utility functions? Compare with access functions.**
   Not all member functions need be made **public** to serve as part of the interface of the class.

   - Access functions in **public**
     - Read/display data
     - Predicate functions
     - Check conditions
     - Utility functions (helper functions)
   - Utility functions in **private**
     - Support operation of **public** member functions
     - Not intended for direct client use

3. **Write a code fragment to show Utility function demonstration.** (see Fig 1)

4. **Describe the Software Reusability as a OOP concept.**

   - Class libraries
     - Well-defined
     - Carefully tested

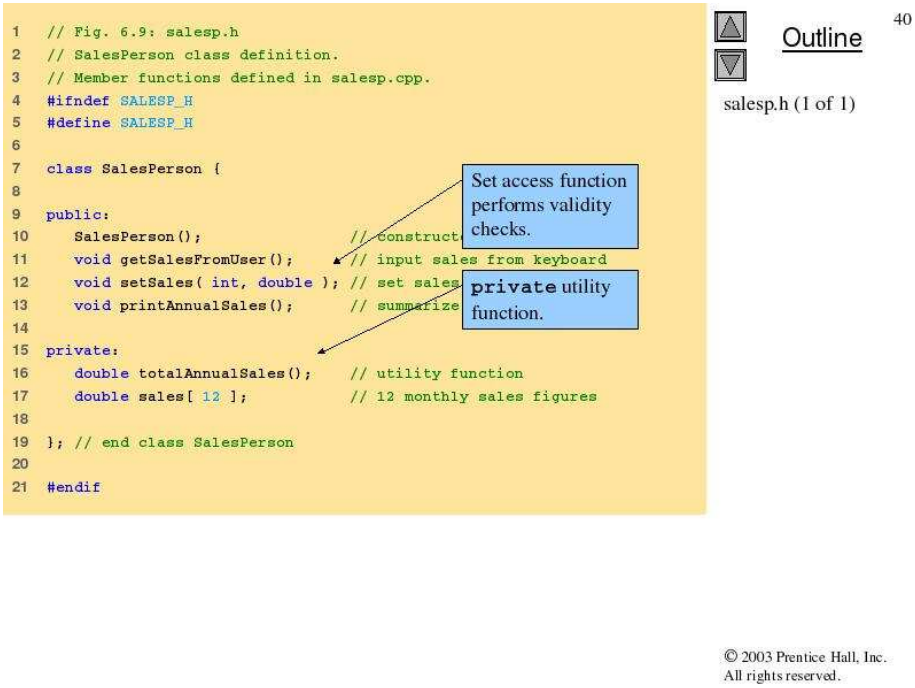

Figure 1: **SalesPerson** class definition

  - Well-documented
  - Portable
  - Widely available
- Speeds development of powerful, high-quality software
  - Rapid applications development (RAD)
- Resulting problems
  - Cataloging schemes
  - Licensing schemes
  - Protection mechanisms