

# Jaypee University of Engineering and Technology, Guna

## Department of Computer Science and Engineering

### Object Oriented Programming Lab (14B17CI371)

#### Lab Exercise-6

Date 22/08/16

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**[Imp Note: All the programs must be written in C++ with distinguished variable names. If any kind of plagiarism is observed, the punctuality marks (10) will be awarded by zero.]**

1. Create a class that includes a data member that holds a “serial number” for each object created from the class. That is, the first object created will be numbered 1, the second 2, and so on. To do this, you’ll need another data member that records a count of how many objects have been created so far. (This member should apply to the class as a whole; not to individual objects. What keyword specifies this?) Then, as each object is created, its constructor can examine this count member variable to determine the appropriate serial number for the new object. Add a member function that permits an object to report its own serial number.

Then write a main() program that creates three objects and queries each one about its serial number. They should respond I am object number 2, and so on.

2. Create two classes. The first, named Sale, holds data for a sales transaction. Its private data members include the day of the month, amount of the sale, and the salesperson’s ID number. The second class, named Salesperson, holds data for a salesperson, and its private data members include each salesperson’s ID number and last name. Each class includes a constructor to which you can pass the field values. Create a friend function named display() that is a friend of both classes and displays the date of sale, the amount, and the salesperson ID and name.

Write a short main() demonstration program to test your classes and friend function. Save the file as Sales.cpp.