### Inheritance Continued

# Example: Payroll

- Identify the objects
  - Salaried Employees
  - Hourly Employees
- Look for shared attributes in those objects
  - Employee Id number
  - Name
  - Department

## Example: Payroll (Continued)

 Define a base class containing the common data members:

```
class Employee {
   //Function Members
public:
   //... Employee methods
   //Data Members
protected:
long int myldNumber;
string LastName, FirstName;
char MiddleInitial;
int DepartmentNumber;
   //... other data members common to all Employees
};
```

## Example: Payroll (Continued)

 From the base class, derive classes containing respective attributes:

```
//A salaried Employee class
class SalariedEmployee: public Employee
// ... Method members
public:
// ... Salaried employee methods
//Data members
protected:
  float mySalary;
```

## Example: Payroll (Continued)

```
// An hourly Employee Class
class HourlyEmployee: public Employee
// ... Method members
public:
// ... Hourly employee methods
// ... Data members
protected:
float myHourlyWage, HoursWorked, myOvertimeFactor;
};
```