1. Imagine a publishing company that markets both book and audiocassette versions of its works. Create a class publication that stores the title (a string) and price (type float) of a publication. From this class derive two classes: book, which adds a page count (type int), and tape, which adds a playing time in minutes (type float). Each of these three classes should have a getdata() function to get its data from the user at the keyboard, and a putdata() function to display its data. Write a main() program to test the book and tape classes by creating instances of them, asking the user to fill in data with getdata(), and then displaying the data with putdata().

2. Employees in a company are divided into the classes Employee, HourlyPaid, SalesCommissioned, and Executive for the purpose of calculating their weekly wages or monthly salaries. The data to be maintained for each class may be summarized as follows:

Employee class	Name of employee
HourlyPaid class	Rate of pay Total weekly hours worked
SalesCommissioned class	Percentage commission on total sales Total sales for month
Executive class	Incremental point on annual salary scale

The methods used in each class may be summarized as follows.

Employee class	getName computePay—as an abstract method
HourlyPaid class	getRate getHours computePay
SalesCommissioned class	getPercentage getSales computePay
Executive class	getIncrement computePay

Implement the classes and write a test program to verify that the classes function correctly.