KING SAUD UNIVERSITY

College of Applied Studies and Community Service

Applied Computing

Sheet 9

Given the following diagram, Implement all the Classes and write a client code to test your application.

Emlpoyee

+ name

+Ssn

+CalculateEarning()

SalariedEmployee

-weeklySalaryValue

+CalculateEarning()

CommissionEmployee

-grossSales value

-commisionRateValue

+CalculateEarning()

1. Class Employee:

CalculateEarning(): return double and its must override method.

1. Class Salaried Employee:

CalculateEarning(): return the weekly salary employee

1. Class Commission Employee:

CalculateEarning(): return the commission rate multiply by gross sales values.

1. Write appropriate properties for each class.
2. The client program should be test the application by creating 1 Salaried employee object and display his salary. In addition to create 1 commission employee object and display his salary.

Question 2:

With the help of Inheritance define suitable classes for geometrical figures:

Square, Circle, Rectangle.

Assume that we do not need rotation, to define square and circle using center of object and only one property - radius for circle and side length for square. This way, it is possible to define rectangle with position and two properties (width and height).

Add 2 methods that must overrides:

* Show: return the geometrical information
* Calculate area: to calculate area for each figure.

Design suitable form to test your classes.