

Worksheet

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Name:

Roll No: Class: Section:

Date:

ENCAPSULATION AND INHERITANCE

Chapter-14

1. State whether the following statement is true or false.

- (a) In a Single inheritance, Class B inherits only from Class A.
- (b) In a Multi-Level Inheritance Class-C inherits from Class-B and Class-B inherits from Class-A.
- (c) A Subclass can become a Superclass to another class extending from it in Java.
- (d) When more than one type of inheritance is coded together it is called hybrid inheritance.
- (e) Inheritance doesn't support reusability.

2. Answer in one word.

- (a) Which access specifier allows accessibility of a member only within the same class where it is declared?
- (b) An oop feature that allows all members of a class to be the members of another class?
- (c) Which access specifier allows accessibility by all classes in the same package, but only by subclasses in a different package?
- (d) Write a statement to initialize a static variable 'm' with 8, that is declared in class 'Helloworld'?

3. Answer the following questions.

- (a) What is meant by base class?
- (b) What is encapsulation?
- (c) What are the types of visibility modes used in Java?
- (d) Write a program by using a class with the following specifications:

Class name — Salary

Data members — private int basic

Member functions:

1. void input() — to input basic pay
2. void display() — to find and print the following:
da = 30% of basic
hra = 10% of basic
gross = basic + da + hra

Use the main function to create an object and call member methods of the class.