Title:

Design and develop inheritance for a given

case study, identify objects and relationships

and implement inheritance whenever applicable

Emplyose class has Emp name, Emp id, Address

Mail id and mobile no as members. Inherit

and classes: Programmer, Team lead,

Assistant Project Manager and Project Manager

from employee class. Add Basic pay (BP)

as the member of all the inherited classes

with 97% of BP as DA, 10% of BP as HRA,

12% of BP as PF, 0.1% of BP for staff

club fund. Generate pay slips for the

emplyoses with their gross and net salary.

Theory.

Inheritance:

Inheritance in Java is a mechanism in which one object acquires all the properties and behaviors of a parents object. It is an important part of oops.

The idea behind inheritance in Java is that you can create new classes that are built upon existing classes. When you inherit from an existing class, you can reuse

methods and fields of the parent class.

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Terms used in Inheritance.

class

A class is a group of objects which have common properties. It is a template or blueprint from which objects are created.

Sub class

Subclass is a class which inherits the other class. It is also called a derived class.

Super class

Super class is the class from where a subclass inherits the features. It is also called a base class or a parent class.

The syntax of Java Inheritance

class Subclass-name extends Superclass-name

1 methods of fields

+

The extends keywords indicates that you are making a new class that derived from as existing class. The meaning of "extends' is to increase the functionality.

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class A
class B
class C

Conclusion:

we have successfully implemented the inheritance program.