**NAME**: Prathamesh Gadekar OOP Practical Number **3**

**Roll Number**:14 SE-(*IT*)

------------------------------------------------------------------------------------------------------------------------------------------

Inheritance

Design and develop inheritance for a given case study, identify objects and relationships and

implement inheritance wherever applicable. Employee class has Emp\_name, Emp\_id,

Address, Mail\_id, and Mobile\_no as members. Inherit the 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 employees with their gross

and net salary.

------------------------------------------------------------------------------------------------------------------------------------------

class Employee {

String name,add,mail;

float id,mobile,basic,gross;

void salary () {

float da, hra,pf,cf,s;

da=basic\*97/100;

hra=basic\*10/100;

pf=basic\*15/100;

cf=basic\*0.1f/100;

gross=basic+da+hra-pf-cf;

System.out.println("Name of Emplyoee ->\t\t"+name);

System.out.println("Basic Salary of Employee ->\t"+basic);

System.out.println("Gross Salary ->\t\t\t"+gross);

System.out.println("Mail of Employee ->\t\t"+mail);

System.out.println("\n");

}

}

class Programmer extends Employee{

Programmer(String name,int sal,String mail)

{

System.out.println("(1) PROGRAMMER SALARY DETAILS" );

this.name=name;

this.mail=mail;

basic=sal;

//System.out.println("\n");

}

}

class Teamlead extends Employee{

Teamlead(String name, int sal, String mail)

{

System.out.println("(2) TEAMLEADER SALARY DETAILS:");

this.name=name;

this.mail=mail;

basic=sal;

//System.out.println("\n");

}

}

class APM extends Employee{

APM(String name,int sal, String mail){

System.out.println("(3) ASSISTANT SALARY DETAILS:");

this.name=name;

this.mail=mail;

basic=sal;

//System.out.println("\n");

}

}

class ProjectManager extends Employee{

ProjectManager(String name, int sal, String mail){

System.out.println("(4) PROJECT MANAGER SALARY DETAILS:");

this.name=name;

this.mail=mail;

basic=sal;

// System.out.println("\n");

}

}

public class Inheritance {

public static void main(String[] args) {

Programmer p= new Programmer("Sujal Patil",50000,"xyz@gmail.com");

p.salary();

Teamlead t= new Teamlead("Pankaj Tripathi",60000,"abc@gmail.com");

t.salary();

APM a=new APM("Chaitanya Kale",700000,"www@gmail.com");

a.salary();

ProjectManager PM=new ProjectManager("Anushka Sharma",800000,"qwe@gmail.com");

PM.salary();

}

}

**OUTPUT**

(1) PROGRAMMER SALARY DETAILS

Name of Emplyoee -> Sujal Patil

Basic Salary of Employee -> 50000.0

Gross Salary -> 95950.0

Mail of Employee -> xyz@gmail.com

(2) TEAMLEADER SALARY DETAILS:

Name of Emplyoee -> Pankaj Tripathi

Basic Salary of Employee -> 60000.0

Gross Salary -> 115140.0

Mail of Employee -> abc@gmail.com

(3) ASSISTANT SALARY DETAILS:

Name of Emplyoee -> Chaitanya Kale

Basic Salary of Employee -> 700000.0

Gross Salary -> 1343300.0

Mail of Employee -> www@gmail.com

(4) PROJECT MANAGER SALARY DETAILS:

Name of Emplyoee -> Anushka Sharma

Basic Salary of Employee -> 800000.0

Gross Salary -> 1535200.0

Mail of Employee -> qwe@gmail.com