Assignment No. 03

Name:
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/* Design and develop inheritance for a given case study, identify objects and relationships and implement inheritance wherever applicable. Employee class hasEmp_name, Emp_id, Address,Mail_id, and Mobile_nos 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. */

Source Code :

```
class Employee {
   String name, add, mail;
   int  mobile;
   float id, basic;
   void  salary() {
      float da, hra, pf, cf, gross;
      da = 97/100*basic;
      hra = 10/100*basic;
      pf = 12/100*basic;
      cf = basic*0.1f/100;
      gross = basic + da + hra - pf - cf;
      System.out.println("Name:" + name);
      System.out.println("Address:"+add);
      System.out.println("E_mail:"+ mail);
      System.out.println("Mobile:"+mobile);
      System.out.println("Emp_id:"+id);
      System.out.println("Basic salary:" + basic);
      System.out.println("Gross salary:" + gross);

   }
}
class ProMan extends Employee {
   ProMan(String name, String add, String mail,int mobile,float id,int sal) {
      System.out.println("--Project Manager Salary Slip--");
      this.name = name;
      this.add=add;
      this.mail=mail;
      this.mobile=mobile;
      this.id=id;
      basic = sal;

   }
}
class APM extends Employee {
   APM(String name, String add, String mail,int mobile,float id,int sal){
      System.out.println("--Assistant Project Manager Salary Slip--");
      this.name = name;
      this.add=add;
      this.mail=mail;
      this.mobile=mobile;
      this.id=id;
      basic = sal;
   }
}

class TeamLead extends Employee {
```

```
    TeamLead(String name, String add, String mail,int mobile,float id,int sal) {
        System.out.println("--Team Leader Salary Slip--");
        this.name = name;
        this.add=add;
        this.mail=mail;
        this.mobile=mobile;
        this.id=id;
        basic = sal;
    }
}

class programmer extends Employee {
    programmer(String name, String add, String mail,int mobile,float id,int sal) {
        System.out.println("--Programmer Salary Slip--");
        this.name = name;
        this.add=add;
        this.mail=mail;
        this.mobile=mobile;
        this.id=id;
        basic = sal;
    }
}

class Inheritance{
    public static void main(String[] args) {
        ProMan p=new ProMan("Aman Kale","Pune","asd@gmail.com",1234567891,101,60000);
        p.salary();
        APM a=new APM("Amar Date","Pune","ertd@gmail.com",321456987,102,50000);
        a.salary();
        TeamLead t=new TeamLead("Ram Rane","Mumbai","trya23@gmail.com",456789123,104,45000);
        t.salary();
        programmer r=new programmer("Radha Mane","Mumbai","yugfc67@gmail.com",894561236,104,55000);
        r.salary();

    }
}
```

Output :

```
--Project Manager Salary Slip--
Name:Aman Kale
Address:Pune
E_mail:asd@gmail.com
Mobile:1234567891
Emp_id:101.0
Basic salary:60000.0
Gross salary:59940.0

--Assistant Project Manager Salary Slip--
Name:Amar Date
Address:Pune
E_mail:ertd@gmail.com
Mobile:321456987
Emp_id:102.0
Basic salary:50000.0
Gross salary:49950.0

--Team Leader Salary Slip--
Name:Ram Rane
Address:Mumbai
```

E_mail:trya23@gmail.com
Mobile:456789123
Emp_id:104.0
Basic salary:45000.0
Gross salary:44955.0

--Programmer Salary Slip--
Name:Radha Mane
Address:Mumbai
E_mail:yugfc67@gmail.com
Mobile:894561236
Emp_id:104.0
Basic salary:55000.0
Gross salary:54945.0

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