```
//Problem Statement::
/*
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
Assistant Project Manager and Project Manager from employee class. Add Basic Pay (BP)
the member of all the inherited classes . with 97% of BP as DA, 10 % of BP as HRA, 12%
BP as PF, 0.1% of BP for staff club fund. Generate pay slips for the employees with
their
gross and net salary
*/
import java.util.Scanner;
//import java.io.*;
class Employee
{
    String Emp name, Address;
    String Mail id, Mobile no;
    int Emp id;
    public void input_emp()
    {
        Scanner in obj = new Scanner(System.in);
        System.out.printf("\nEnter Employee ID::");
        Emp id = in obj.nextInt();
        System.out.printf("\nEnter Name::");
        Emp name = in obj.next();
        System.out.printf("\nEnter Address::");
        Address = in obj.next();
        System.out.printf("\nEnter Mobile Number::");
        Mobile_no = in_obj.next();
        System.out.printf("\nEnter E-Mail ID::");
        Mail id = in obj.next();
    }
    public void display_emp()
    {
        System.out.printf("\nEnter Employee ID :: "+Emp id);
        System.out.printf("\nEnter Name :: "+Emp name);
        System.out.printf("\nEnter Address :: "+Address);
        System.out.printf("\nEnter Mobile Number :: "+Mobile no);
        System.out.printf("\nEnter E-Mail ID :: "+Mail id);
    }
}
class Programmer extends Employee
{
    double Basic Pay;
    double gross sal, net sal;
    public Programmer()
    {
        super();
        Basic Pay = 0;
```

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25/12/2022, 23:15
                                             /.../java_Codest/oop_prac_3.java
      public void set_basepay(double bp)
          Basic Pay = bp;
      public void calculate_salary()
          gross sal = Basic Pay + (Basic Pay*0.97);
          net sal = gross sal - (Basic Pay*0.12) - (Basic Pay*0.1) - (Basic Pay*0.001);
      public void disp_prog()
          display emp();
          System.out.printf("\nBasic Pay::"+Basic_Pay);
          System.out.printf("\nDA::"+(Basic Pay*0.97));
          System.out.printf("\nGross Salary::"+gross_sal);
          System.out.printf("\n\nPF::"+(Basic Pay*0.12));
          System.out.printf("\nHRA::"+(Basic Pay*0.1));
          System.out.printf("\nStaff Club Fund::"+(Basic Pay*0.001));
          System.out.printf("\nNet Salary ="+net sal);
      }
  }
  class Team_Lead extends Employee
      double Basic Pay;
      double gross sal, net sal;
      public Team_Lead()
          super();
          Basic Pay = 0;
      public void set_basepay(double bp)
          Basic Pay = bp;
      public void calculate_salary()
      {
          gross sal = Basic Pay + (Basic Pay*0.97);
          net sal = gross sal - (Basic Pay*0.12) - (Basic Pay*0.1) - (Basic Pay*0.001);
      }
      public void disp_tl()
          display emp();
          System.out.printf("\nBasic Pay::"+Basic Pay);
          System.out.printf("\nDA::"+(Basic Pay*0.97));
          System.out.printf("\nGross Salary::"+gross sal);
          System.out.printf("\n\nPF::"+(Basic_Pay*0.12));
          System.out.printf("\nHRA::"+(Basic Pay*0.1));
          System.out.printf("\nStaff Club Fund::"+(Basic Pay*0.001));
          System.out.printf("\nNet Salary ="+net sal);
      }
  }
  class Assistant Project Manager extends Employee
  {
      double Basic Pay;
```

```
double gross sal, net sal;
    public Assistant Project Manager()
    {
        super();
        Basic Pay = 0;
    public void set basepay(double bp)
        Basic Pay = bp;
    }
    public void calculate_salary()
        gross sal = Basic Pay + (Basic Pay*0.97);
        net sal = gross sal - (Basic Pay*0.12) - (Basic Pay*0.1) - (Basic Pay*0.001);
    }
    public void disp apm()
        display emp();
        System.out.printf("\nBasic Pay::"+Basic Pay);
        System.out.printf("\nDA::"+(Basic Pay*0.97));
        System.out.printf("\nGross Salary::"+gross_sal);
        System.out.printf("\n\nPF::"+(Basic Pay*0.12));
        System.out.printf("\nHRA::"+(Basic Pay*0.1));
        System.out.printf("\nStaff Club Fund::"+(Basic_Pay*0.001));
        System.out.printf("\nNet Salary ="+net sal);
    }
}
class Project Manager extends Employee
    double Basic Pay;
    double gross sal, net sal;
    public Project_Manager()
    {
        super();
        Basic Pay = 0;
    public void set_basepay(double bp)
        Basic Pay = bp;
    public void calculate_salary()
        gross sal = Basic Pay + (Basic Pay*0.97);
        net_sal = gross_sal - (Basic_Pay*0.12) - (Basic_Pay*0.1) - (Basic_Pay*0.001);
    }
    public void disp pm()
        display emp();
        System.out.printf("\nBasic Pay::"+Basic Pay);
        System.out.printf("\nDA::"+(Basic Pay*0.97));
        System.out.printf("\nGross Salary::"+gross sal);
        System.out.printf("\n\nPF::"+(Basic Pay*0.12));
        System.out.printf("\nHRA::"+(Basic Pay*0.1));
        System.out.printf("\nStaff Club Fund::"+(Basic Pay*0.001));
        System.out.printf("\nNet Salary ="+net_sal);
```

```
Base Pay = in obj.nextDouble();
                pml.set basepay(Base Pay);
                pml.calculate salary();
                pm1.disp pm();
                break;
                System.out.printf("Program Exiting!!!");
                break:
                default:
                System.out.printf("\nEnter Valid Option!!!");
            }
        }while(choice!=5);
    }
// import java.util.*;
// class Employee
// {
//
       String emp name, address;
//
       String mail id, mob no;
//
       int emp id;
//
       public void inp emp()
//
       {
//
           Scanner in obj = next Scanner(System.in);
//
           System.out.println("Enter employee name :: ");
//
           emp name = in obj.next();
//
           System.out.println("Enter employee id :: ");
//
           emp_id = in_obj.nextInt();
//
           System.out.println("Enter employee address ::");
//
           address = in obj.next();
//
           System.out.println("Enter employee mail :: ");
//
           mail id = in obj.next();
//
           System.out.println("Enter employee mobile :: ");
//
           mob no = in obj.next();
//
       }
//
       public void display emp()
//
//
           System.out.println("\nEmployee name :: " + emp_name);
//
           System.out.println("\nEmployee id :: " +emp_id);
//
           System.out.println("\nEmployee address :: "+address);
//
           System.out.println("\nEmployee mail ide :: "+mail id);
           System.out.println("\nEmployee mobile number :: "+mob_no);
//
//
       }
// }
// class Programmer extends Employee
// {
//
       double basic pay;
//
       double gross sal, net sal;
//
       public Programmer()
```

```
25/12/2022, 23:15
                                              /.../java_Codest/oop_prac_3.java
  //
          {
  //
              super();
  //
              basic pay = 0;
  //
          }
  //
          public set basepay(double bp)
  //
          {
  //
              basic pay = bp;
  //
          }
  //
          public calc sal()
  //
  //
              gross sal = basic pay + (basic pay*0.97);
  //
              net sal = gross sal - (basic pay*0.12) - (basic pay*0.1)-(basic pay*0.01);
  //
          }
  //
          public void disp prog()
  //
          {
  //
              display emp();
  //
              System.out.println("Basic Pay : "+ basic_pay);
  //
              System.out.println("gross Salary : "+gross sal);
  //
              System.out.println("Net Salary : "+net_sal);
  //
          }
  // }
  // public class Main
  // {
  //
          public static void main (String[] args )
  //
  //
              int choice;
  //
              double base pay;
  //
              Scanner in obj = new Scanner(System.in);
  //
              do
  //
              {
  //
                  System.out.printf("\nEmployee Salary Slip Generator::");
                  System.out.printf("\n1.Programmer\n2.Team Lead\n3.Assistant Project
  //
  Manager\nn4.Project Manager\n5.Exit");
  //
                  System.out.printf("\nEnter Choice::\t");
  //
                  choice = in obj.nextInt();
  //
                  switch(choice)
  //
  //
                       case 1:
  //
  //
              }
  //
          }
```

// }