

// Aim:-Design and develop inheritance for a case study.
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```
package Expt3;

import java.util.*;
public class Employee
{
    Scanner sc= new Scanner(System.in);
    String address;
    String emailId;
    long mobileNo;
    int empId;
    double basicPay;
    static int id=1000;
    double netSalary,grosSalary;
    double hra,da,pf,staffClubFund;

    public Employee()
    {
        id++;
        empId = id;
    }
    public void readData()
    {
        System.out.print("Enter the name of Employee: ");
        String empName = sc.nextLine();
        System.out.print("Enter Address: ");
        address = sc.next();
        System.out.print("Enter email id: ");
        emailId = sc.next();
        System.out.print("Enter Mobile No.: ");
        mobileNo=sc.nextLong();
    }
    public void displayEmployee()
    {
        System.out.println("ID\tEMP NAME\tEmail Id \tADDRESS\t\tMOBILE");
        int empName = 0;
        System.out.println(empId+"\t"+empName+"\t"+emailId+"\t"+address+"\t"+mobileNo );
    }
    public void calculateSalary()
    {
        da = basicPay*.97;

        hra = basicPay*.10;
        pf = basicPay*.12;
        staffClubFund = basicPay*0.001;
        grosSalary = basicPay + da + hra;
        netSalary = grosSalary- pf - staffClubFund;
    }
    public void printSalarySlip()
    {
        System.out.println(" BASIC PAY:"+basicPay);
        System.out.println(" DA:"+da);
        System.out.println(" HRA:"+hra);
        System.out.println(" PF:"+pf);
        System.out.println(" GROSS SALARY:"+grosSalary);
        System.out.println(" NET SALARY"+ netSalary);
    }
}
```

```

public class Programmer extends Employee
{
    public Programmer()
    {
    }
    public void readProgrammer()
    {
        readData();
        System.out.print("BASIC PAY of programmer: ");
        basicPay=sc.nextDouble();
    }
}

```

```

public class TeamLead extends Employee
{
    public TeamLead()
    {
    }
    public void readTeamLead()
    {
        readData();
        System.out.print("BASIC PAY of TeamLead: ");
        basicPay=sc.nextDouble();
    }
}

```

```

public class ProjectManager extends Employee
{
    public ProjectManager()
    {
    }
    public void readProjectManager()
    {
        readData();
        System.out.print("BASIC PAY of ProjectManager: ");
        basicPay=sc.nextDouble();
    }
}

```

```

public class AsstProjectManager extends Employee
{
    public AsstProjectManager()
    {
    }
    public void readAsstProjectManager()
    {
        readData();
        System.out.print("BASIC PAY of AsstProjectManager: ");
        basicPay=sc.nextDouble();
    }
}
public class TestEmployee
{
    public static void main(String[] args)
    {
        Programmer p = new Programmer();
        AsstProjectManager ap = new AsstProjectManager();
        TeamLead tl = new TeamLead();
    }
}

```

```

    ProjectManager pm = new ProjectManager();
    System.out.println(" Programmer ");
    p.readProgrammer();
    System.out.println(" ProjectManager ");
    pm.readProjectManager();
    System.out.println(" TeamLead ");
    tl.readTeamLead();
    System.out.println(" AsstProjectManager ");
    ap.readAsstProjectManager();
    p.calculateSalary();
    pm.calculateSalary();
    tl.calculateSalary();
    ap.calculateSalary();
    System.out.println(" Programmer Salary Slip");
    p.printSalarySlip();
    System.out.println(" Project Manager Salary Slip");
    pm.printSalarySlip();
    System.out.println(" Team Lead Salary Slip");
    tl.printSalarySlip();
    System.out.println("Asst Project Manager Salary Slip");
    ap.printSalarySlip();
}
}

```

OUTPUT:

```

Programmer
Enter the name of Employee: Anuja Durgade
Enter Address: Pune
Enter email id: anujadurgade@gmail.com
Enter Mobile No.: 9404732614
BASIC PAY of programmer: 30000
ProjectManager
Enter the name of Employee: Vaishnavi Dhaigude
Enter Address: Nirawaagaj
Enter email id: vaishnavidhaigude@gmail.com
Enter Mobile No.: 9146151084
BASIC PAY of ProjectManager: 40000
TeamLead
Enter the name of Employee: Vaishnavi Nalawade
Enter Address: Phaltan
Enter email id: vaishnavinalawade@gmail.com
Enter Mobile No.: 9699436564
BASIC PAY of TeamLead: 35000
AsstProjectManager
Enter the name of Employee: Shruti Mane
Enter Address: Mhaswad
Enter email id: shrutimane@gmailol.com
Enter Mobile No.: 9890326721
BASIC PAY of AsstProjectManager: 38000
Programmer Salary Slip
BASIC PAY:30000.0
DA:29100.0
HRA:3000.0
PF:3600.0
GROSS SALARY:62100.0
NET SALARY58470.0
Project Manager Salary Slip
BASIC PAY:40000.0
DA:38800.0
HRA:4000.0

```

PF:4800.0
GROSS SALARY:82800.0
NET SALARY77960.0
Team Lead Salary Slip
BASIC PAY:35000.0
DA:33950.0
HRA:3500.0
PF:4200.0
GROSS SALARY:72450.0
NET SALARY68215.0
Asst Project Manager Salary Slip
BASIC PAY:38000.0
DA:36860.0
HRA:3800.0
PF:4560.0
GROSS SALARY:78660.0
NET SALARY74062.0