Assignment-02

Employee.java
```java
import java.util.Scanner;
import java.lang.Math;

public class Employee {
    String employeeName;
    int employeeID;
    String status;
    String employeeMail;
    String employeeAd;
    int employeeMob;
    double basicPay;

    void getData(){
        int min = 1000000;
        int max = 9999999;
        Scanner sc = new Scanner(System.in);
        System.out.print("Name: ");
        employeeName = sc.nextLine();
        employeeID = (int)(Math.random()*(max - min + 1) + min);
        System.out.print("Mail: ");
        employeeMail = sc.nextLine();
        System.out.print("Address: ");
        employeeAd = sc.nextLine();
        System.out.print("Mobile Number: ");
        employeeMob = sc.nextInt();
    }

    void displayData(){
        System.out.println("----------Personal Info----------");
        System.out.println("Name          : " + this.employeeName);
        System.out.println("ID            : " + this.employeeID);
        System.out.println("Status        : " + this.status);
        System.out.println("Mail          : " + this.employeeMail);
        System.out.println("Address       : " + this.employeeAd);
        System.out.println("Mobile No     : " + this.employeeMob);
        System.out.print("\n");
    }
}
```

Programmer.java
```java
import java.util.Scanner;

public class Programmer extends Employee {
    Scanner sc = new Scanner(System.in);

    double da;
    double hra;
    double pf;
    double clubFee;
    double grossSalary;
    double netSalary;
```

```java
    public Programmer(){
        System.out.println("Enter Programmer's Data");
        getData();
        getBasicPay();
        status = "Programmer";
        displayData();
        generateSlip();
    }
    void getBasicPay(){
        System.out.print("Basic Salary : ");
        basicPay = sc.nextDouble();
        System.out.println("\n");
        da = 0.97*basicPay;
        hra = 0.10*basicPay;
        pf = 0.12*basicPay;
        clubFee = 0.001*basicPay;
        grossSalary = basicPay + da + hra;
        netSalary = grossSalary - pf - clubFee;

    }
    void generateSlip(){
        System.out.println("-----------Pay Slip-----------");
        System.out.println("Basic Pay      : " + this.basicPay);
        System.out.println("DA             : " + this.da);
        System.out.println("HRA            : " + this.hra);
        System.out.println("PF             : " + this.pf);
        System.out.println("Gross Salary    : " + this.grossSalary);
        System.out.println("Net Salary      : " + this.netSalary);
        System.out.print("\n\n");
    }
}


ProjectManager.java
import java.util.Scanner;

public class ProjectManager extends Employee {
    Scanner sc = new Scanner(System.in);
    double da;
    double hra;
    double pf;
    double clubFee;
    double grossSalary;
    double netSalary;

    public ProjectManager(){
        System.out.println("Enter Project Manager's Data");
        getData();
        getBasicPay();
        status = "Project Manager";
        displayData();
        generateSlip();
    }
    void getBasicPay() {
```

```java
        System.out.print("Basic Salary : ");
        basicPay = sc.nextDouble();
        System.out.println("\n");
        da = 0.97 * basicPay;
        hra = 0.10 * basicPay;
        pf = 0.12 * basicPay;
        clubFee = 0.001 * basicPay;
        grossSalary = basicPay + da + hra;
        netSalary = grossSalary - pf - clubFee;
    }
    void generateSlip(){
        System.out.println("-----------Pay Slip-----------");
        System.out.println("Basic Pay      : " + this.basicPay);
        System.out.println("DA            : " + this.da);
        System.out.println("HRA            : " + this.hra);
        System.out.println("PF           : " + this.pf);
        System.out.println("Gross Salary    : " + this.grossSalary);
        System.out.println("Net Salary      : " + this.netSalary);
        System.out.print("\n\n");
    }
}


AsstManager.java
import java.util.Scanner;

public class AsstManager extends Employee {
        Scanner sc = new Scanner(System.in);
        double da;
        double hra;
        double pf;
        double clubFee;
        double grossSalary;
        double netSalary;

        public AsstManager(){
            System.out.println("-----Programmer`s Data-----");
            getData();
            getBasicPay();
            super.status = "Asst. Manager";
            displayData();
            generateSlip();
        }
        void getBasicPay(){
            System.out.print("Basic Salary : ");
            System.out.println("\n");
            basicPay = sc.nextDouble();
            da = 0.97*basicPay;
            hra = 0.10*basicPay;
            pf = 0.12*basicPay;
            clubFee = 0.001*basicPay;
            grossSalary = basicPay + da + hra;
            netSalary = grossSalary - pf - clubFee;
        }
        void generateSlip(){
```

```java
            System.out.println("-----------Pay Slip-----------");
            System.out.println("Basic Pay      : " + this.basicPay);
            System.out.println("DA            : " + this.da);
            System.out.println("HRA            : " + this.hra);
            System.out.println("PF            : " + this.pf);
            System.out.println("Gross Salary    : " + this.grossSalary);
            System.out.println("Net Salary      : " + this.netSalary);
            System.out.print("\n\n");
        }
}

TeamLeader.java
import java.util.Scanner;

public class TeamLeader extends Employee {
    Scanner sc = new Scanner(System.in);


    double da;
    double hra;
    double pf;
    double clubFee;
    double grossSalary;
    double netSalary;

    public TeamLeader(){
        System.out.println("Enter Team Leader's Data");
        getData();
        getBasicPay();
        status = "Team Leader";
        displayData();
        generateSlip();
    }
    void getBasicPay(){
        System.out.print("Basic Salary : ");
        basicPay = sc.nextDouble();
        System.out.println("\n");
        da = 0.97*basicPay;
        hra = 0.10*basicPay;
        pf = 0.12*basicPay;
        clubFee = 0.001*basicPay;
        grossSalary = basicPay + da + hra;
        netSalary = grossSalary - pf - clubFee;
    }
    void generateSlip(){
        System.out.println("-----------Pay Slip-----------");
        System.out.println("Basic Pay      : " + this.basicPay);
        System.out.println("DA            : " + this.da);
        System.out.println("HRA            : " + this.hra);
        System.out.println("PF            : " + this.pf);
        System.out.println("Gross Salary    : " + this.grossSalary);
        System.out.println("Net Salary      : " + this.netSalary);
        System.out.print("\n\n");
    }
}
```

Main.java
```java
import java.util.Scanner;

public class Main {

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        while(true){
            System.out.println("Generate Pay Slip for Employee\n");
            System.out.println("1 : Programmer");
            System.out.println("2 : Project Manager");
            System.out.println("3 : Asst. Manager");
            System.out.println("4 : Team Leader");
            System.out.println("5 : Exit");
            System.out.print("\n");

            int ope;
            System.out.print("Enter Your Choice : ");
            ope = sc.nextInt();
            System.out.print("\n");

            switch (ope){
                case 1 :
                    Programmer p = new Programmer();
                    break;
                case 2 :
                    ProjectManager m = new ProjectManager();
                    break;
                case 3 :
                    AsstManager a = new AsstManager();
                    break;
                case 4 :
                    TeamLeader l = new TeamLeader();
                    break;
                case 5 :
                    System.exit(0);
                default:
                    System.out.println("Enter Valid Info..");
            }

        }

    }

}
```

OUTPUT :
Generate Pay Slip for Employee

1 : Programmer
2 : Project Manager
3 : Asst. Manager
4 : Team Leader

5 : Exit

Enter Your Choice : 1

Enter Programmer's Data
Name: Parth Sali
Mail: parth@123
Address: Sharada Colony
Mobile Number: 1234567890
Basic Salary : 100000

----------Personal Info----------
Name   : Parth Sali
ID   : 1814757
Status   : Programmer
Mail   : parth@123
Address   : Sharada Colony
Mobile No   : 1234567890

-----------Pay Slip-----------
Basic Pay   : 100000.0
DA   : 97000.0
HRA   : 10000.0
PF   : 12000.0
Gross Salary : 207000.0
Net Salary   : 194900.0

Generate Pay Slip for Employee

1 : Programmer
2 : Project Manager
3 : Asst. Manager
4 : Team Leader
5 : Exit

Enter Your Choice : 2

Enter Project Manager's Data
Name: Elon Musk
Mail: teslafounder@69
Address: mars
Mobile Number: 1234567890
Basic Salary : 2000

----------Personal Info----------
Name   : Elon Musk
ID   : 4863533
Status   : Project Manager
Mail   : teslafounder@69
Address   : mars
Mobile No   : 1234567890

```
-----------Pay Slip-----------
Basic Pay      : 2000.0
DA          : 1940.0
HRA          : 200.0
PF          : 240.0
Gross Salary    : 4140.0
Net Salary      : 3898.0


Generate Pay Slip for Employee

1 : Programmer
2 : Project Manager
3 : Asst. Manager
4 : Team Leader
5 : Exit

Enter Your Choice : 5


Process finished with exit code 0
```