

Assignment 03 - OOPL (Code)

//Code performed by Pranit Zambre, Roll number: 19.

```
import java.util.*;
abstract public class Employee {
    String empName;
    long empId;
    String address;
    String email;
    long mobileNo;

    abstract void calculateSalary();

    void getData() {
        Scanner emp = new Scanner(System.in);
        System.out.println("Enter employee name: \n");
        empName = emp.next();
        System.out.println("Enter employee ID: \n");
        empId = emp.nextLong();
        System.out.println("Enter employee address: \n");
        address = emp.next();
        System.out.println("Enter employee E-mail address: \n");
        email = emp.next();
        System.out.println("Enter employee mobile number: \n");
        mobileNo = emp.nextLong();
    }

    void display() {
        System.out.println("Employee details are as follows: \n");
        System.out.println("Name: " + empName + "\n");
        System.out.println("ID: " + empId + "\n");
        System.out.println("Address: " + address + "\n");
        System.out.println("E-mail address: " + email + "\n");
        System.out.println("Mobile number: " + mobileNo + "\n");
    }
}
```

//Code performed by Pranit Zambre, Roll number: 19.

```
public class Programmer extends Employee {
    double salary;
    {
        salary = 100000;
    }

    @Override
    void calculateSalary() {
        double DA = (salary*97)/100;
        double HRA = (salary*10)/100;
        double PF = (salary*12)/100;
        double SCF = (salary*10)/100;

        double grossSalary = salary + DA + HRA;
        double netSalary = grossSalary - (PF + SCF);

        System.out.println("Employee's DA is " + DA);
        System.out.println("Employee's HRA is " + HRA);
        System.out.println("Employee's PF is " + PF);
        System.out.println("Employee's SCF is " + SCF);

        System.out.println("Employee's gross salary is " + grossSalary);
        System.out.println("Employee's net salary is " + netSalary);
    }
}
```

//Code performed by Pranit Zambre, Roll number: 19.

```
public class teamLead extends Employee {
    double salary;
    {
        salary = 150000;
    }

    @Override
```

```

void calculateSalary() {
    double DA = (salary*97)/100;
    double HRA = (salary*10)/100;
    double PF = (salary*12)/100;
    double SCF = (salary*10)/100;

    double grossSalary = salary + DA + HRA;
    double netSalary = grossSalary - (PF + SCF);

    System.out.println("Employee's DA is " + DA);
    System.out.println("Employee's HRA is " + HRA);
    System.out.println("Employee's PF is " + PF);
    System.out.println("Employee's SCF is " + SCF);

    System.out.println("Employee's gross salary is " + grossSalary);
    System.out.println("Employee's net salary is " + netSalary);

}
}

```

//Code performed by Pranit Zambre, Roll number: 19.

```

public class APM extends Employee {
    double salary;
    {
        salary = 200000;
    }

    @Override
    void calculateSalary() {
        double DA = (salary*97)/100;
        double HRA = (salary*10)/100;
        double PF = (salary*12)/100;
        double SCF = (salary*10)/100;

        double grossSalary = salary + DA + HRA;
        double netSalary = grossSalary - (PF + SCF);
    }
}

```

```

        System.out.println("Employee's DA is " + DA);
        System.out.println("Employee's HRA is " + HRA);
        System.out.println("Employee's PF is " + PF);
        System.out.println("Employee's SCF is " + SCF);

        System.out.println("Employee's gross salary is " + grossSalary);
        System.out.println("Employees net salary is " + netSalary);

    }
}

```

//Code performed by Pranit Zambre, Roll number: 19.

```

public class projectManager extends Employee {
    double salary;
    {
        salary = 500000;
    }

    @Override
    void calculateSalary() {
        double DA = (salary*97)/100;
        double HRA = (salary*10)/100;
        double PF = (salary*12)/100;
        double SCF = (salary*10)/100;

        double grossSalary = salary + DA + HRA;
        double netSalary = grossSalary - (PF + SCF);

        System.out.println("Employee's DA is " + DA);
        System.out.println("Employee's HRA is " + HRA);
        System.out.println("Employee's PF is " + PF);
        System.out.println("Employee's SCF is " + SCF);

        System.out.println("Employee's gross salary is " + grossSalary);
        System.out.println("Employees net salary is " + netSalary);

    }
}

```

```
}
```

//Code performed by Pranit Zambre, Roll number: 19.

```
public class Main {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
  
        int ch;  
        switchCaseLoop:  
        while(true) {  
            System.out.println("Select job title: \n");  
            System.out.println("1.Type 1 for Programmer. \n2.Type 2 for Team  
Lead. \n3.Type 3 for Assistant Project Manager. \n4.Type 4 for Project  
Manager. \n5.Type 5 to Exit. \n");  
            ch = sc.nextInt();  
            switch (ch) {  
                case 1 -> {  
                    Programmer P = new Programmer();  
                    P.getData();  
                    P.display();  
                    P.calculateSalary();  
                }  
                case 2 -> {  
                    teamLead TL = new teamLead();  
                    TL.getData();  
                    TL.display();  
                    TL.calculateSalary();  
                }  
                case 3 -> {  
                    APM A = new APM();  
                    A.getData();  
                    A.display();  
                    A.calculateSalary();  
                }  
                case 4 -> {  
                    projectManager PM = new projectManager();  
                    PM.getData();  
                }  
            }  
        }  
    }  
}
```

```
        PM.display();
        PM.calculateSalary();
        break;
    }
    case 5 -> {
        break switchCaseLoop;
    }

    default -> {
        System.out.println("Invalid choice! Please, enter a valid choice.
\n");
    }
}
}
}
}
```

//Code performed by Pranit Zambre, Roll number: 19.

OUTPUT

Select job title:

1. Type 1 for Programmer.
- 2.Type 2 for Team Lead.
- 3.Type 3 for Assistant Project Manager.
- 4.Type 4 for Project Manager.
- 5.Type 5 to Exit.

1

Enter employee name:

Sushant

Enter employee ID:

69

Enter employee address:

Earth

Enter employee E-mail address:

sushant@gmail.com

Enter employee mobile number:

6969696969

Employee details are as follows:

Name: Sushant

ID: 69

Address: Earth

E-mail address: sushant@gmail.com

Mobile number: 6969696969

Employee's DA is 97000.0

Employee's HRA is 10000.0

Employee's PF is 12000.0

Employee's SCF is 10000.0

Employee's gross salary is 207000.0

Employee's net salary is 185000.0

Select job title:

1.Type 1 for Programmer.

2.Type 2 for Team Lead.

3.Type 3 for Assistant Project Manager.

4.Type 4 for Project Manager.

5.Type 5 to Exit.

2

Enter employee name:

Akash

Enter employee ID:

69

Enter employee address:

Earth

Enter employee E-mail address:

akash@gmail.com

Enter employee mobile number:

6969696969

Employee details are as follows:

Name: Akash

ID: 69

Address: Earth

E-mail address: akash@gmail.com

Mobile number: 6969696969

Employee's DA is 145500.0

Employee's HRA is 15000.0

Employee's PF is 18000.0

Employee's SCF is 15000.0

Employee's gross salary is 310500.0

Employee's net salary is 277500.0

Select job title:

1.Type 1 for Programmer.

2.Type 2 for Team Lead.

3.Type 3 for Assistant Project Manager.

4.Type 4 for Project Manager.

5.Type 5 to Exit.

3

Enter employee name:

Sagar

Enter employee ID:

69

Enter employee address:

Earth

Enter employee E-mail address:

sagar@gmail.com

Enter employee mobile number:

6969696969

Employee details are as follows:

Name: Sagar

ID: 69

Address: Earth

E-mail address: sagar@gmail.com

Mobile number: 6969696969

Employee's DA is 194000.0

Employee's HRA is 20000.0

Employee's PF is 24000.0

Employee's SCF is 20000.0

Employee's gross salary is 414000.0

Employees net salary is 370000.0

Select job title:

1.Type 1 for Programmer.

2.Type 2 for Team Lead.

3.Type 3 for Assistant Project Manager.

4.Type 4 for Project Manager.

5.Type 5 to Exit.

4

Enter employee name:

Pranit

Enter employee ID:

69420

Enter employee address:

Mars

Enter employee E-mail address:

pranit@gmail.com

Enter employee mobile number:

6942069420

Employee details are as follows:

Name: Pranit

ID: 69420

Address: Mars

E-mail address: pranit@gmail.com

Mobile number: 6942069420

Employee's DA is 485000.0

Employee's HRA is 50000.0

Employee's PF is 60000.0

Employee's SCF is 50000.0

Employee's gross salary is 1035000.0

Employees net salary is 925000.0

Select job title:

1.Type 1 for Programmer.

2.Type 2 for Team Lead.

3.Type 3 for Assistant Project Manager.

4.Type 4 for Project Manager.

5.Type 5 to Exit.

6

Invalid choice! Please, enter a valid choice.

Select job title:

- 1.Type 1 for Programmer.
- 2.Type 2 for Team Lead.
- 3.Type 3 for Assistant Project Manager.
- 4.Type 4 for Project Manager.
- 5.Type 5 to Exit.

5

Process finished with exit code 0