Assignment 03 - OOPL (Code)

```
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");
	}
}


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);
	}
}


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);

        }
}


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);

        }
}
```

```
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);

	}
}


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");
                }
        }
        }

        }
}
```

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