

## SESSION 3 PROGRAMS(ObjectOrientedProgramming)

### Program 1

//Java Program to demonstrate the use of Object Oriented Programming

```
public class Employee {
    //Common Data for all Employee Objects
    static String companyName="LexisNexisRisk";

    //Specific Data of individual Employee Objects
    String empName;
    String empLocation;

    //Method to Calculate Salary of Employee
    public int calculateSalary(int perdaysal, int attendance)
    {
        int salary = perdaysal * attendance ;
        return salary ;
    }

    //Method to Calculate Tax & PF of Employee
    public int[] calculateTaxNPF(int salary)
    {
        int tax = salary/10;
        int pf = salary/20;
        int[] taxnpf = {tax,pf};
        return taxnpf;
    }

    public static void main(String[] args) {

        //Create Objects of Employee
        Employee akshay = new Employee() ;
        Employee aniket = new Employee() ;
        Employee vijay = new Employee() ;

        //Call to Calculate Salary Method of Employee
        int sal1 = akshay.calculateSalary(1000, 30);
        int sal2 = aniket.calculateSalary(2000, 20) ;
        int sal3 = vijay.calculateSalary(3000, 27);

        //Display Salary of Employees
        System.out.println("Akshay's Salary is "+sal1);
        System.out.println("Aniket's Salary is "+sal2);
        System.out.println("Vijay's Salary is "+sal3);

        //Call to Calculate TaxNPF Method of Employee
        int tax1 = (akshay.calculateTaxNPF(sal1))[0];
        int pf1 = (akshay.calculateTaxNPF(sal1))[1];

        //Display TaxNPF of Employees

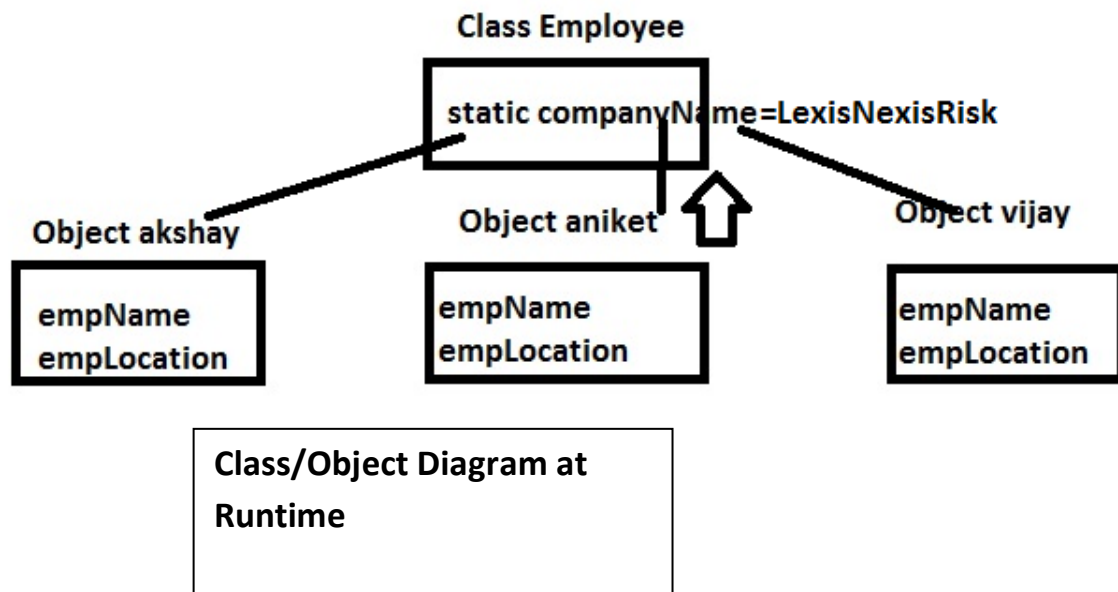
        System.out.println("Tax for Aniket's is "+tax1);
```

# Core Java Training

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```
System.out.println("PF for Aniket's is "+pf1);

/**
System.out.println("Akshay's Company is "+akshay.companyName);
System.out.println("Aniket's Company is "+aniket.companyName);
System.out.println("Vijay's Company is "+vijay.companyName);
*/
}
}
```



### SESSION 3 ASSIGNMENTS

1. Write a Program to represent Car Details . Find & define Car Class's attributes & Methods. Represent Maruti800,Innova,HondaCity cars by different objects of Car class in the main method . From the Main method , call other methods of car class .Represent common data of cars by static keyword .
2. Employee Class Program as above needs to be modified as some enhancements/changes are required .

Include the following changes :

i)      Salary = perdaysal\*(attendance+allowed Leaves)

ii)      Income tax = 10% of salary if sal <20000

            Or =20%of salary if sal>20000

            Or =30%of salary if sal>30000

iii)      PF = 2% of salary if sal <20000

            Or =4%of salary if sal>20000

            Or =7%of salary if sal>30000