ASSIGNMENT-5 SUBJECT: FPL-2

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SECTION-C

BATCH-C/3

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Assignment No.: 5

Aim:

A company has many employees. An employee has employee Id, basic salary, house rent allowance, dearness allowance, profession tax and total salary. An employee has an address. The address has an apartment number, apartment name, road and PIN code. When an employee is appointed, he is assigned with an employee Id and basic salary.

Display all the details of the employees as per id and as per pin code. Display take home salary for all the employees, display the tax to be deducted across all employees. Test your program for ten employees

Input -

- 1. employee Id,
- 2. employee name,
- 3. address details(apartment number, apartment name, road and PIN code),
- 4. basic salary,

Output -

- 1. all the details of the employees as per id and as per pin code
- 2. take-home salary
- 3. tax to be deducted across all employees

Theory:

Create a class Person -

Field - Name, address details(apartment number, apartment name, road and PIN code),

Methods - Constructor, accept and display

Class Employee -

Inherits the Person class

Fields: Emp ID, grade, basic salary, Gross/Total Salary, HRA (House Rent Allowance) DA

(Dearness Allowance)

Methods: Constructor, accept, display and gross-salary

The total salary of an employee is the summation of basic salary, house rent allowance(HRA) which is 20 percent of basic salary, dearness allowance(DA) which is 45 percent of basic salary.

```
HRA = 20% of basic salary
DA = 45% of basic salary
Gross or Total Salary = basic salary + HRA +DA
```

The take home salary is calculated after deducting profession tax which is 7 percent of basic salary from the total salary.

```
Income tax = 7% of basic salary

Take home salary = Total Salary - income tax
```

One can ask for the total salary of the employee and take-home salary of the employee. Identify a class/classes from the above statement, identify the attributes, the data types, the behaviour. e.g if Basic = 8000

```
HRA = 20% of 8000 = 1600
DA = 45 % of 8000 = 3600
Gross/ Total salary = 8000 + 1600 + 3600 = 13200
```

```
Income tax = 7% of 8000 = 560
Take home salary = 13200 - 560 = 12640
```

Outcomes -

The learner should be able to

- 1. Apply Inheritance concept
- 2. Use do-while, if else if construct
- 3. Use String and Arrays
- 4. use user defined functions

SCREENSHOT OF CODE AND OUTPUT:

SCREENSHOT OF CODE:

```
String apartmentName,apartmentNumber,road,name;
    pin=sc.nextInt()
                                                                                                                             2 4 4 ^
```

```
void gross()
public static void main(String[]args){
```

