Progressive Education Society’s

**MODERN COLLEGE OF ENGINEERING, Pune -05.**

(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

MCA Department

**PRACTICAL SUBMISSION RECORD- A.Y. 2024-25**

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| **Class: FYMCA Div: A**  **Semester: II** | **Course Code: MCA01554**  **Course Name: Java Programming Laboratory** | | **Batch: F2** |
| **Name: Pranav Raju Malwatkar** | | **Roll No: 51037** | |
| **CO No: CO515.1** | | **Assignment No: 2** | |

**Program Title: 2) Write a Java program to calculate salary using packages. Creates a package employee and**

**create a class Emp. Data members are name, employee id, category, basic pay, HRA, DA, net**

**pay, provident fund, gross pay, income tax, and allowance. Calculate the values in methods.**

**Call the methods to perform and print values.**

**Program Code:**

// Save this file as Emp.java inside a folder named 'employee'

package employee;

public class Emp {

String name;

int empId;

String category;

double basicPay, HRA, DA, allowance, grossPay, providentFund, incomeTax, netPay;

public Emp(String name, int empId, String category, double basicPay) {

this.name = name;

this.empId = empId;

this.category = category;

this.basicPay = basicPay;

}

public void calculateSalary() {

HRA = 0.10 \* basicPay; // 10% of basic pay

DA = 0.05 \* basicPay; // 5% of basic pay

allowance = 0.08 \* basicPay; // 8% of basic pay

grossPay = basicPay + HRA + DA + allowance;

providentFund = 0.12 \* grossPay; // 12% of gross pay

incomeTax = 0.10 \* grossPay; // 10% of gross pay

netPay = grossPay - (providentFund + incomeTax);

}

public void displaySalary() {

System.out.println("Employee ID: " + empId);

System.out.println("Name: " + name);

System.out.println("Category: " + category);

System.out.println("Basic Pay: " + basicPay);

System.out.println("HRA: " + HRA);

System.out.println("DA: " + DA);

System.out.println("Allowance: " + allowance);

System.out.println("Gross Pay: " + grossPay);

System.out.println("Provident Fund: " + providentFund);

System.out.println("Income Tax: " + incomeTax);

System.out.println("Net Pay: " + netPay);

}

}

// Main class to use Emp class outside employee folder

import employee.Emp;

public class java2 {

public static void main(String[] args) {

// Hardcoded employee details

String name = "John Doe";

int empId = 101;

String category = "Manager";

double basicPay = 50000;

// Create employee object

Emp emp = new Emp(name, empId, category, basicPay);

// Calculate and display salary

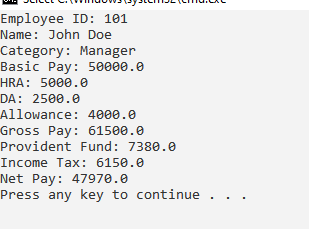
emp.calculateSalary();

emp.displaySalary();

}

}

**Output:**

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