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**

|  |  |  |  |
| --- | --- | --- | --- |
| **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: 1** | |

**Program Title: 1) Create a hierarchy of Employee, Manager, Sales Manager, they should have the following**

**functionality:**

**a) Employee: Display name, date of birth and id of Employee.**

**b) Manager: Display all above information with salary drawn.**

**Sales Manager: Display all above information and commission if applicable.**

**Program Code:**

// Base class: Employee

class Employee {

String name, dob;

int id;

Employee(String name, String dob, int id) {

this.name = name;

this.dob = dob;

this.id = id;

}

void display() {

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

System.out.println("DOB: " + dob);

System.out.println("ID: " + id);

}

}

// Subclass: Manager

class Manager extends Employee {

double salary;

Manager(String name, String dob, int id, double salary) {

super(name, dob, id);

this.salary = salary;

}

void display() {

super.display();

System.out.println("Salary: $" + salary);

}

}

// Subclass: SalesManager

class SalesManager extends Manager {

double commission;

SalesManager(String name, String dob, int id, double salary, double commission) {

super(name, dob, id, salary);

this.commission = commission;

}

void display() {

super.display();

System.out.println("Commission: $" + commission);

}

}

// Main Class

public class java1 {

public static void main(String[] args) {

Employee emp = new Employee("John", "15/08/1985", 101);

Manager mgr = new Manager("Alice", "20/10/1990", 102, 75000);

SalesManager sm = new SalesManager("Bob", "05/12/1995", 103, 80000, 5000);

System.out.println("\nEmployee Details:");

emp.display();

System.out.println("\nManager Details:");

mgr.display();

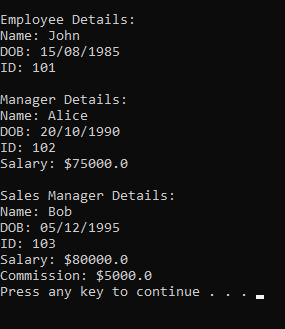
System.out.println("\nSales Manager Details:");

sm.display();

}

}

**Output:**

****