**Java Practice LAB {10.02.2023}**

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3-MCA B

**CODE :**

import java.util.\*;

class Person{

    private String name,address;

    private byte age;

    public Person(String name, byte age, String address) {

        this.name = name;

        this.age = age;

        this.address = address;

    }

    public Person(Person person) {

        this.name = person.name;

        this.age = person.age;

        this.address = person.address;

    }

    void read(){

        Scanner sc = new Scanner(System.in);

        System.out.print("Enter name : ");

        name = sc.nextLine();

        System.out.print("Enter age : ");

        age = sc.nextByte();

        System.out.print("Enter address : ");

        address = sc.next();

    }

    void show(){

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

        System.out.println("Age : "+age);

        System.out.println("Address "+ address);

    }

}

class Employee extends Person{

    private int EmployeeID;

    private String companyName, Department, Designation;

    public Employee(String name, byte age, String address, int EmployeeID, String companyName, String Department, String Designation) {

        super(name, age, address);

        this.EmployeeID = EmployeeID;

        this.companyName = companyName;

        this.Department = Department;

        this.Designation = Designation;

    }

    public Employee(Employee emp) {

        super(emp);

        this.EmployeeID = emp.EmployeeID;

        this.companyName = emp.companyName;

        this.Department = emp.Department;

        this.Designation = emp.Designation;

    }

    public void read() {

        Scanner sc = new Scanner(System.in);

        super.read();

        System.out.print("Enter Employee ID: ");

        EmployeeID = sc.nextInt();

        sc.nextLine();

        System.out.print("Enter Company Name: ");

        companyName = sc.nextLine();

        System.out.print("Enter Department: ");

        Department = sc.nextLine();

        System.out.print("Enter Designation: ");

        Designation = sc.nextLine();

    }

    public void display() {

        super.show();

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

        System.out.println("Company Name: " + companyName);

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

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

    }

}

class EmployeeSalary extends Employee{

    private int Basic,DA,HRA,PF,IT;

    public EmployeeSalary(String name, byte age, String address, int EmployeeID, String companyName, String Department, String Designation, int Basic, int DA, int HRA, int PF, int IT){

        super(name,age,address,EmployeeID,companyName,Department,Designation);

        this.Basic= Basic;

        this.DA = DA;

        this.HRA = HRA;

        this.PF = PF;

        this.IT = IT;

    }

    public EmployeeSalary(EmployeeSalary sal){

        super(sal);

        this.Basic= sal.Basic;

        this.DA = sal.DA;

        this.HRA = sal.HRA;

        this.PF = sal.PF;

        this.IT = sal.IT;

    }

    public void read(){

        super.read();

        Scanner sc = new Scanner(System.in);

        System.out.print("Enter Basic salary : ");

        Basic = sc.nextInt();

        System.out.print("Enter DA salary : ");

        DA = sc.nextInt();

        System.out.print("Enter HRA salary : ");

        HRA = sc.nextInt();

        System.out.print("Enter PF salary : ");

        PF = sc.nextInt();

        System.out.print("Enter IT salary : ");

        IT = sc.nextInt();

    }

    public void Net\_salary(){

        int gross,net;

        gross = Basic+DA+HRA;

        net = gross - PF - IT;

        System.out.println("Gross salary : " + gross);

        System.out.println("Net salary : " + net);

    }

}

public class pLab {

    public static void main(String args[]){

        EmployeeSalary ob1 = new EmployeeSalary(null, (byte)0,null,0,null,null,null,0,0,0,0,0);

        System.out.println("\n\n-------- Running parameterized constructor --------");

        ob1.read();

        System.out.println("\n-------- Parameterized constructor results --------");

        ob1.Net\_salary();

        System.out.println("-------------------------------------------");

        EmployeeSalary ob2 = new EmployeeSalary(ob1);

        System.out.println("\n\n-------- Copy constructor results --------");

        ob2.Net\_salary();

    }

}

OUTPUT:

