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Topic: oops concepts

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**1.INHERITANCE:**

class Employee {

private String name;

private String id;

private double salary;

public Employee(String name, String id, double salary) {

this.name = name;

this.id = id;

this.salary = salary;

}

public void displayDetails() {

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

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

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

}

}

**class Manager extends Employee** {

private String department;

public Manager(String name, String id, double salary, String department) {

super(name, id, salary);

this.department = department;

}

public void displayDetails() {

super.displayDetails();

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

}

}

**class Clerk extends Employee** {

private String office;

public Clerk(String name, String id, double salary, String office) {

super(name, id, salary);

this.office = office;

}

public void displayDetails() {

super.displayDetails();

System.out.println("Office: " + office);

}

}

**class Security extends Employee** {

private String shift;

public Security(String name, String id, double salary, String shift) {

super(name, id, salary);

this.shift = shift;

}

public void displayDetails() {

super.displayDetails();

System.out.println("Shift: " + shift);

}

}

public class Main {

public static void main(String[] args) {

Manager manager = new Manager("kathir", "01", 30000, "developer");

Clerk clerk = new Clerk("bala", "05", 25000, "head information collector");

Security security = new Security("chandru", "08", 15000, "Night Shift");

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

manager.displayDetails();

System.out.println();

System.out.println("Clerk Details:");

clerk.displayDetails();

System.out.println();

System.out.println("Security Details:");

security.displayDetails();

}

}

**2.Constructor:**

class Employee {

private String name;

private String id;

private double salary;

public Employee(String name, String id, double salary) {

this.name = name;

this.id = id;

this.salary = salary;

}

public String getName() {

return name;

}

public String getId() {

return id;

}

public double getSalary() {

return salary;

}

public void setName(String name) {

this.name = name;

}

public void setId(String id) {

this.id = id;

}

public void setSalary(double salary) {

this.salary = salary;

}

public void displayDetails() {

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

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

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

}

}

public class Main {

public static void main(String[] args) {

Employee emp1 = new Employee("kathir", "01", 50000);

Employee emp2 = new Employee("bala", "02", 25000);

System.out.println("Employee 1 Details:");

emp1.displayDetails();

System.out.println("\nEmployee 2 Details:");

emp2.displayDetails();

}

}