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LAB 4

1. class Employee {

private int empID;

private String empName;

private String empDesignation;

public void setEmpID(int empID) {

this.empID = empID;

}

public int getEmpID() {

return empID;

}

public void setEmpName(String empName) {

this.empName = empName;

}

public String getEmpName() {

return empName;

}

public void setEmpDesignation(String empDesignation) {

this.empDesignation = empDesignation;

}

public String getEmpDesignation() {

return empDesignation;

}

}

class TestEmployee {

public static void main(String[] args) {

Employee employee1 = new Employee();

employee1.setEmpID(1001);

employee1.setEmpName("Mr.Bogdan");

employee1.setEmpDesignation("Software Engineer");

Employee employee2 = new Employee();

employee2.setEmpID(1002);

employee2.setEmpName("Ms.Bird");

employee2.setEmpDesignation("Data Scientist");

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

System.out.println("Employee ID: " + employee1.getEmpID());

System.out.println("Employee Name: " + employee1.getEmpName());

System.out.println("Employee Designation: " + employee1.getEmpDesignation());

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

System.out.println("Employee ID: " + employee2.getEmpID());

System.out.println("Employee Name: " + employee2.getEmpName());

System.out.println("Employee Designation: " + employee2.getEmpDesignation());

}

}



class SuperB {

int x;

void setIt(int n) {

x = n;

}

void increase() {

x = x + 1;

}

void triple() {

x = x \* 3;

}

int returnIt() {

return x;

}

}

class SubC extends SuperB {

void triple() {

x = x + 3; // override existing method

}

void quadruple() {

x = x \* 4; // new method

}

}

public class TestInheritance {

public static void main(String[] args) {

SuperB b = new SuperB();

b.setIt(2);

b.increase();

b.triple();

System.out.println(b.returnIt()); // Prints 9

SubC c = new SubC();

c.setIt(2);

c.increase();

c.triple();

System.out.println(c.returnIt()); // Prints 11

}

}