Practical 4

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1)
Employee class:
public class Employee {
  private int empID;
  private String empName;
  private String empDesignation;
  public int getEmpID() {
    return empID;
  }
  public void setEmpID(int empID) {
    this.empID = empID;
  }
  public String getEmpName() {
    return empName;
  }
  public void setEmpName(String empName) {
   this.empName = empName;
  }
  public String getEmpDesignation() {
    return empDesignation;
  }
  public void setEmpDesignation(String empDesignation) {
```

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this.empDesignation = empDesignation;
  }
}
<u>Test Class to Invoke the Employee Class:</u>
public class TestEmployee {
  public static void main(String[] args) {
    Employee employee1 = new Employee();
    Employee employee2 = new Employee();
    // Setting values for Mr. Bogdan
    employee1.setEmpID(101);
    employee1.setEmpName("Bogdan");
    employee1.setEmpDesignation("Software Engineer");
    // Setting values for Ms. Bird
    employee2.setEmpID(102);
    employee2.setEmpName("Bird");
    employee2.setEmpDesignation("HR Manager");
    // Printing employee details using getters
    System.out.println("Employee 1 Details:");
    System.out.println("ID: " + employee1.getEmpID());
    System.out.println("Name: " + employee1.getEmpName());
    System.out.println("Designation: " + employee1.getEmpDesignation());
    System.out.println("\nEmployee 2 Details:");
    System.out.println("ID: " + employee2.getEmpID());
    System.out.println("Name: " + employee2.getEmpName());
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System.out.println("Designation: " + employee2.getEmpDesignation());
  }
}
Output:
Employee 1:
ID: 101
Name: Bogdan
Designation: Software Engineer
Employee 2:
ID: 102
Name: Bird
Designation: HR Manager
2)
public class SuperB {
  int x;
  void setIt(int n) { x = n; }
  void increase() { x = x + 1; }
  void triple() { x = x * 3; }
  int returnIt() { return x; }
}
public 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());
    SubC c = new SubC();
    c.setIt(2);
    c.increase();
    c.triple();
    System.out.println(c.returnIt());
 }
}
Output:
9
```

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