

JAVA PROGRAMMING COURSE

EXERCISE

OVERRIDES IN JAVA

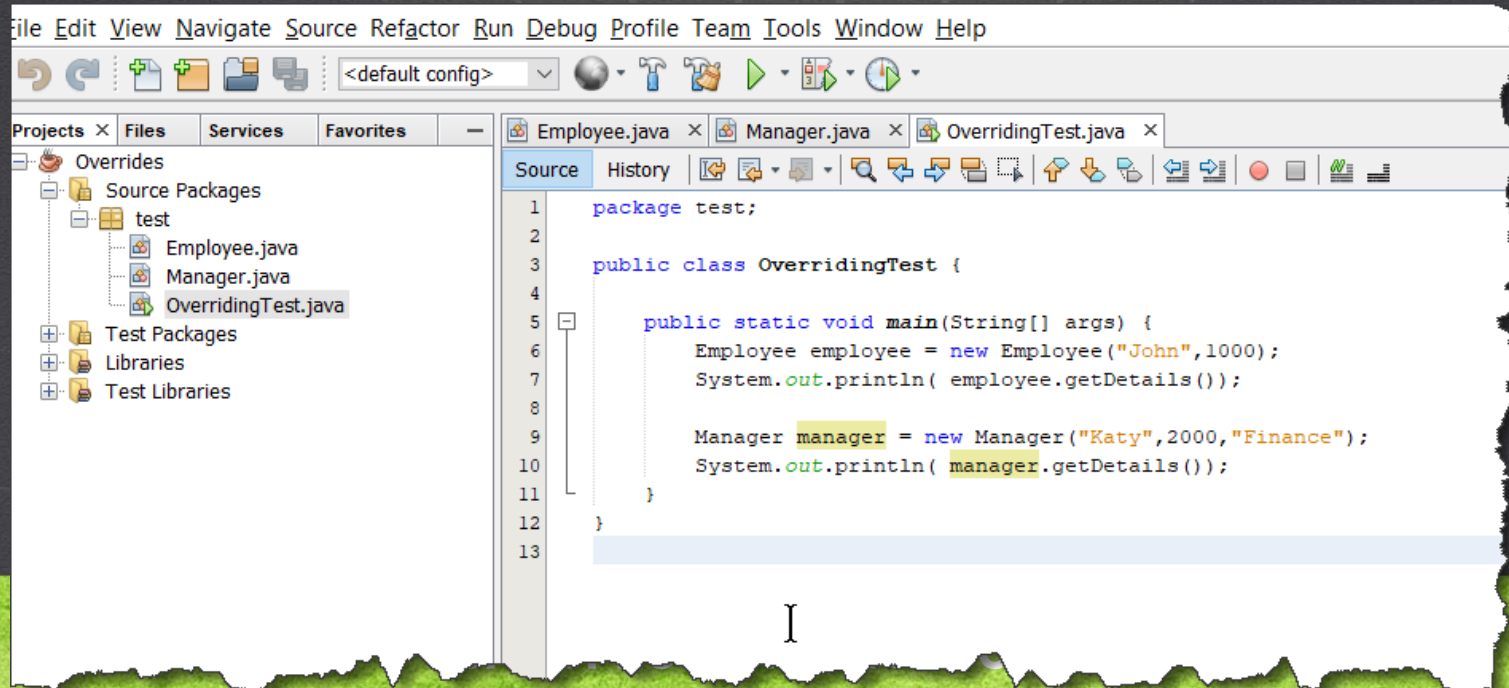


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EXERCISE OBJECTIVE

Create a program to implement the concept of overwriting methods in Java. At the end we should observe the following:



1. CREATE A NEW PROJECT

Create a new project:

New Java Application

Steps

1. Choose Project
2. **Name and Location**

Name and Location

Project Name: Overrides

Project Location: C:\Courses\JavaProgramming\Lesson09 Browse...

Project Folder: C:\Courses\JavaProgramming\Lesson09\Overrides

☐ Use Dedicated Folder for Storing Libraries

Libraries Folder: Browse...

Different users and projects can share the same compilation libraries (see Help for details).

☐ Create Main Class overrides.Overrides

< Back Next > **Finish** Cancel Help

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2. CREATE A NEW CLASS

Create a new class:

New Java Class

Steps

1. Choose File Type
2. **Name and Location**

Name and Location

Class Name:

Project:

Location:

Package:

Created File:

< Back Next > **Finish** Cancel Help

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3. MODIFY THE CODE

Employee.java:

```
package test;

public class Employee {

    protected String name;
    protected double salary;

    protected Employee(String nombre, double sueldo) {
        this.name = nombre;
        this.salary = sueldo;
    }

    public String obtenerDetalles() {
        return "Name: " + name
            + ", salary: " + salary;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public double getSalary() {
        return salary;
    }

    public void setSalary(double salary) {
        this.salary = salary;
    }
}
```

4. CREATE A NEW CLASS

Create a new class:

New Java Class

Steps

1. Choose File Type
2. **Name and Location**

Name and Location

Class Name:

Project:

Location:

Package:

Created File:

< Back Next > **Finish** Cancel Help

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5. MODIFY THE CODE

Manager.java:

```
package test;

public class Manager extends Employee{

    private String deparment;

    public Manager(String name, double salary, String deparment) {
        super(name, salary);
        this.deparment = deparment;
    }

    //Override the inherited method
    public String getDetails(){
        //Observe how we directly access the inherited attribute
        //because it is declared as protected in the parent class
        //and therefore the child class inherits it and accesses directly
        return "Name: " + name +
            ", salary: " + salary +
            ", department: " + deparment;
    }

    public String getDeparment() {
        return deparment;
    }

    public void setDeparment(String deparment) {
        this.deparment = deparment;
    }
}
```


6. CREATE A NEW CLASS

Create a new class:

New Java Class

Steps

1. Choose File Type
2. **Name and Location**

Name and Location

Class Name:

Project:

Location:

Package:

Created File:

< Back Next > **Finish** Cancel Help

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7. MODIFY THE CODE

OverridingTest.java:

```
package test;

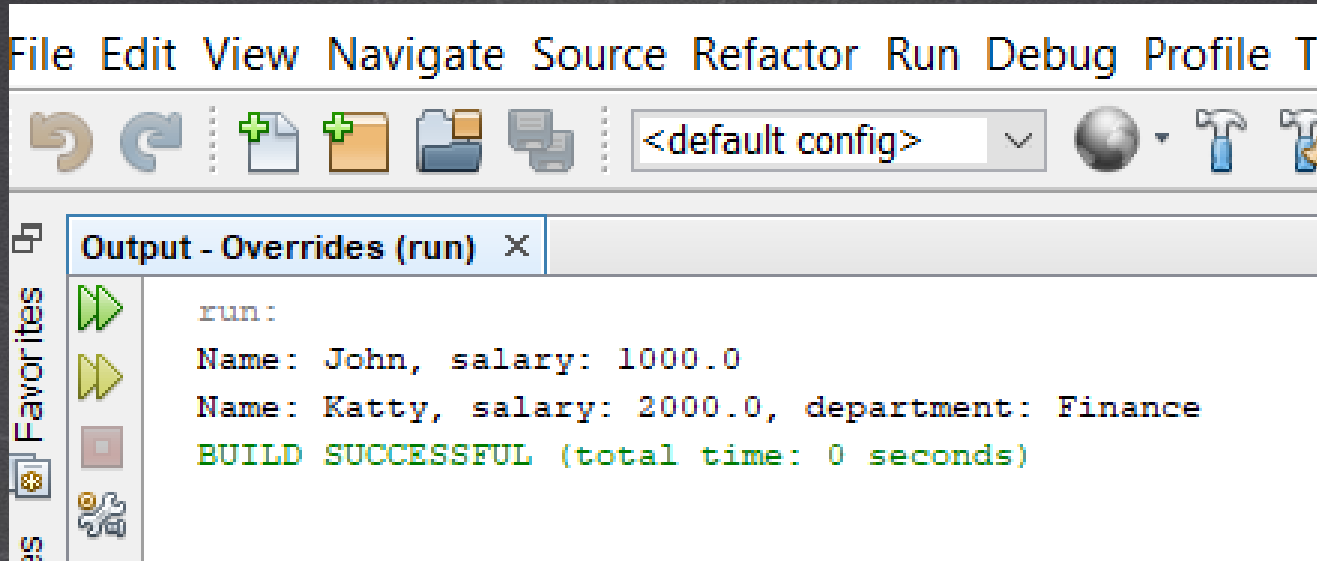
public class OverridingTest {

    public static void main(String[] args) {
        Employee employee = new Employee("John",1000);
        System.out.println( employee.getDetails());

        Manager manager = new Manager("Katy",2000,"Finance");
        System.out.println( manager.getDetails());
    }
}
```

8. EXECUTE THE PROJECT

The result is as follows:



EXERCISE CONCLUSION

- With this exercise we have put into practice the concept of overriding methods in Java.
- We have seen how overriding is a simple but powerful concept in object-oriented programming, so its application and clear understanding will allow us to advance more quickly in Java language learning.



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JAVA PROGRAMMING

By: Eng. Ubaldo Acosta



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