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\* @version August 25, 2022

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\* The Employee class contains the information about an employee.

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public class Employee {

private int id;

private String name;

private int salary;

private double hourlyRate;

public Employee( )

{

id = 0;

name = null;

salary = 0;

hourlyRate = 0.0;

}

public Employee( int id, String name, int salary, double hourlyRate )

{

this.id = id;

this.name = name;

this.salary = salary;

setHourlyRate( hourlyRate );

}

public int getId( ) {

return id;

}

public String getName( )

{

return name;

}

public int getSalary( )

{

return salary;

}

public double getHourlyRate( )

{

return hourlyRate;

}

public void setId( int newId )

{

id = newId;

}

public void setName( String newName )

{

name = newName;

}

public void setSalary( int newSalary )

{

salary = newSalary;

}

public void setHourlyRate( double newHourlyRate )

{

if ( newHourlyRate < 0.00 )

hourlyRate = 0;

else

hourlyRate = newHourlyRate;

}

public String toString( )

{

return getClass().getName() + ":" + id + ":" + name + ":" + salary + ":" + hourlyRate;

}

public boolean equals( Object o )

{

if ( !( o instanceof Employee ) )

return false;

Employee e = ( Employee ) o;

return id == e.id

&& name.equals( e.name )

&& salary == e.salary

&& Math.abs( hourlyRate - e.hourlyRate ) < .01;

}

}

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\* A main class to test the Employee class.

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public class Client {

public static void main(String[] args) {

Employee boss = new Employee( 1, "Joe", 120000, 0.0 );

System.out.println( boss.toString() );

Employee worker = new Employee( 2, "Bob", 0, -9915.00 );

System.out.println( worker );

worker.setHourlyRate( -99.00 );

System.out.println( worker );

System.out.println( "boss = worker? " + boss.equals( worker ) );

}

}

run:

Employee:1:Joe:120000:0.0

Employee:2:Bob:0:0.0

Employee:2:Bob:0:0.0

boss = worker? false

BUILD SUCCESSFUL (total time: 1 second)