```java
public class Main {

  public static void main(String[] args) {

    Employee sam_tittle = new Employee();
    sam_tittle.setID(12345);
    sam_tittle.setRate(25.50);
    sam_tittle.printPay();

    SalaryWorker jim_brown = new SalaryWorker();
    jim_brown.setID(23456);
    jim_brown.setSalary(1500);
    jim_brown.printPay();
    jim_brown.printPay(1500);

  }

}
```

==

```java
public class Employee {

  private int ID;
  private double rate;

  public void setID(int ID) {
    this.ID = ID;
  }
  public int getID() {
    return ID;
  }
  public void setRate(double rate) {
    this.rate = rate;
  }
  public double getRate() {
    return rate;
  }
  public void printPay() {
    double pay;
    pay = rate * 40;
    System.out.println("Pay for this period: "+ pay);
  }

}
```

==

```java
public class SalaryWorker extends Employee {

  private double salary;

  public void setSalary(double sal) {
    salary = sal;
  }
  public double getSalary() {
    return salary;
  }
  // this method overrides the super class method
  @Override
  public void printPay() {
    System.out.println("Pay for this period: " + salary);
  }
  // because this method has a different parameter list, it overloads
  // the super class method
  public void printPay(double sal) {
    System.out.println("Pay for this period: "+ sal);
  }

}
```