

```

1 import java.util.Vector;
2
3 public class Main {
4     public static void main(String[] args) {
5         SalariedEmployee employee_joe = new SalariedEmployee("Joe", "Jones", "111-11-1111", 2500);
6         HourlyEmployee employee_stephanie = new HourlyEmployee("Stephanie", "Smith", "222-22-2222", 25.0, 32);
7         HourlyEmployee employee_mary = new HourlyEmployee("Mary", "Quinn", "333-33-3333", 19.0, 47);
8         CommissionEmployee employee_nicole = new CommissionEmployee("Nicole", "Dior", "444-44-4444", 15.0, 50000.0);
9         SalariedEmployee employee_renwa = new SalariedEmployee("Renwa", "Chanel", "555-55-5555", 1700.0);
10        BaseEmployee employee_mike = new BaseEmployee("Mike", "Davenport", "666-66-6666", 95000.0);
11        CommissionEmployee employee_mahnaz = new CommissionEmployee("Mahnaz", "Vaziri", "777-77-7777", 22.0, 40000.0);
12
13        System.out.print(employee_joe.GetFirstName() + " " + employee_joe.GetLastName() + " " + employee_joe.GetSocialSecurityNumber() + " " + employee_joe.GetWeeklySalary() + "\n");
14        System.out.print(employee_stephanie.GetFirstName() + " " + employee_stephanie.GetLastName() + " " + employee_stephanie.GetSocialSecurityNumber() + " " + employee_stephanie.GetWage() + " " + employee_stephanie.GetNumHoursWorked() + "\n");
15        System.out.print(employee_mary.GetFirstName() + " " + employee_mary.GetLastName() + " " + employee_mary.GetSocialSecurityNumber() + " " + employee_mary.GetWage() + " " + employee_mary.GetNumHoursWorked() + "\n");
16        System.out.print(employee_nicole.GetFirstName() + " " + employee_nicole.GetLastName() + " " + employee_nicole.GetSocialSecurityNumber() + " " + employee_nicole.GetCommissionRate() + " " + employee_nicole.GetGrossSales() + "\n");
17        System.out.print(employee_renwa.GetFirstName() + " " + employee_renwa.GetLastName() + " " + employee_renwa.GetSocialSecurityNumber() + " " + employee_renwa.GetWeeklySalary() + "\n");
18        System.out.print(employee_mike.GetFirstName() + " " + employee_mike.GetLastName() + " " + employee_mike.GetSocialSecurityNumber() + " " + employee_mike.GetBaseSalary() + "\n");
19        System.out.print(employee_mahnaz.GetFirstName() + " " + employee_mahnaz.GetLastName() + " " + employee_mahnaz.GetSocialSecurityNumber() + " " + employee_mahnaz.GetCommissionRate() + " " + employee_mahnaz.GetGrossSales() + "\n");
20    }
21 }

```

```
1 public abstract class Employee {
2     protected String firstName = "none";
3     protected String lastName = "none";
4     protected String socialSecurityNumber = "xxx-xx-xxxx";
5
6     Employee() {}
7     Employee(String first_name, String last_name, String social_security_number)
8     {
9         SetName(first_name, last_name);
10        SetSocialSecurityNumber(social_security_number);
11    }
12
13    public void SetName(String first_name, String last_name)
14    {
15        firstName = first_name;
16        lastName = last_name;
17    }
18
19    public void SetSocialSecurityNumber(String social_security_number)
20    {
21        socialSecurityNumber = social_security_number;
22    }
23
24    public String GetFirstName() {
25        return firstName;
26    }
27
28    public String GetLastName() {
29        return lastName;
30    }
31
32    public String GetSocialSecurityNumber() {
33        return socialSecurityNumber;
34    }
35 }
36
```

```
1 public class BaseEmployee extends Employee {
2     private double baseSalary = 0.0;
3
4     public BaseEmployee() {}
5     public BaseEmployee(String first_name, String last_name, String
6         social_security_number, double base_salary) {
7         super(first_name, last_name, social_security_number);
8         SetBaseSalary(base_salary);
9     }
10    public void SetBaseSalary(double base_salary) {
11        baseSalary = base_salary;
12    }
13
14    public double GetBaseSalary() {
15        return baseSalary;
16    }
17 }
18
```

```
1 public class HourlyEmployee extends Employee {
2     private double wage = 0.0;
3     private int numberHoursWorked = 0;
4
5     HourlyEmployee() {}
6     HourlyEmployee(String first_name, String last_name, String social_security_number,
7         double wage, int number_hours_worked) {
8         super(first_name, last_name, social_security_number);
9         SetWage(wage);
10        SetNumHoursWorked(number_hours_worked);
11    }
12    void SetNumHoursWorked(int num_hours_worked) {
13        numberHoursWorked = num_hours_worked;
14    }
15
16    int GetNumHoursWorked() {
17        return numberHoursWorked;
18    }
19
20    public void SetWage(double wage) {
21        this.wage = wage;
22    }
23
24    public double GetWage() {
25        return wage;
26    }
27
28 }
29
```

```
1 public class SalariedEmployee extends Employee {
2     private double weeklySalary = 0.0;
3
4     SalariedEmployee() {}
5     SalariedEmployee(String first_name, String last_name, String social_security_number,
6         double weekly_salary) {
7         super(first_name, last_name, social_security_number);
8         SetWeeklySalary(weekly_salary);
9     }
10    public void SetWeeklySalary(double weekly_salary) {
11        weeklySalary = weekly_salary;
12    }
13
14    public double GetWeeklySalary() {
15        return weeklySalary;
16    }
17 }
18
```

```
1 public class CommissionEmployee extends Employee {
2     private double commissionRate = 0.0;
3     private double grossSales = 0.0;
4
5     CommissionEmployee() {}
6
7     CommissionEmployee(String first_name, String last_name, String social_security_number
8 , double commission_rate, double gross_sales) {
9         super(first_name, last_name, social_security_number);
10        SetCommissionRate(commission_rate);
11        SetGrossSales(gross_sales);
12    }
13
14    public void SetGrossSales(double gross_sales) {
15        grossSales = gross_sales;
16    }
17
18    public double GetGrossSales() {
19        return grossSales;
20    }
21
22    public void SetCommissionRate(double commission_rate) {
23        commissionRate = commission_rate;
24    }
25
26    public double GetCommissionRate() {
27        return commissionRate;
28    }
29 }
```