```
#include <iostream>
 2
    using namespace std;
 3
 4
    class Employee {
 5
        private:
 6
             string name;
 7
             string ssn;
 8
        public:
 9
             Employee(string a, string b){
 10
 11
                 name = a;
                 ssn = b;
 12
             }
 13
 14
             virtual void print(){
 15
                 cout << " > Name : " << name << endl << " > SSN : " <<
 16
    ssn << endl;
 17
 18
             virtual double payroll() = 0;
 19
 20
    };
21
    class salariedEmployee : Employee {
 22
        private:
 23
             double weeklysal;
 24
        public:
 25
            salariedEmployee(string a, string b, double salary):
 26
    Employee(a, b){
                 weeklysal = salary;
27
 28
 29
             void print(){
30
                 cout << "SALARIED EMPLOYEE : " << endl;</pre>
31
                 Employee::print();
32
                 cout << " > Weekly Salary : " << weeklysal << endl;</pre>
33
                 cout << " > Payroll : " << payroll() << endl;</pre>
34
             }
 35
 36
             double payroll(){
37
                 return weeklysal;
38
             }
 39
 40
 41
    class hourlyEmployee : Employee {
 42
        private:
 43
             double rate;
 44
             double hours;
 45
        public:
 46
             hourlyEmployee(string a, string b, double r, double h):
 47
    Employee(a, b){
                 rate = r;
 48
                 hours = h;
 49
 50
             }
 51
             void print(){
 52
                 cout << "HOURLY EMPLOYEE : " << endl;</pre>
 53
                 Employee::print();
 54
                 cout << " > Hourly Rate : " << rate << endl << " >
55
    Hours Worked: " << hours << endl << " > Payroll: " << payroll() <<
    end1;
56
             }
 57
             double payroll(){
 58
                 if(hours <= 40){
 59
                     return rate * hours;
 60
                 } else {
 61
                     return rate * 40 + ((hours - 40) * rate * 1.5);
 62
                 }
 63
             }
 64
 65
 66
    class commissionEmployee : Employee {
 67
        private:
 68
             double sales;
 69
             double rate;
 70
        public:
 71
             commissionEmployee(string a, string b, double s, double r):
 72
    Employee(a, b){
                 sales = s;
73
                 rate = r;
74
             }
 75
 76
             void print(){
 77
                 cout << "COMMISSION EMPLOYEE : " << endl;</pre>
78
                 Employee::print();
79
                 cout << " > Gross Sales : " << sales << endl << " >
 80
    Rate : " << rate << endl << " > Payroll : " << payroll() << endl;
 81
             }
 82
             double payroll(){
 83
                 return rate * sales;
 84
             }
 85
 86
 87
    class basePlusCommissionEmployee : commissionEmployee {
 88
        private:
 89
             double base;
 90
        public:
 91
             basePlusCommissionEmployee(string a, string b, double s,
 92
    double r, double bs):commissionEmployee(a, b, s, r){
                 base = bs;
 93
             }
 94
 95
             void print(){
 96
                 cout << "BASE + COMMISSION EMPLOYEE : " << endl;</pre>
 97
                 commissionEmployee::print();
 98
                 cout << " > Base Salary : " << base << endl;</pre>
99
             }
100
101
             double payroll(){
102
                 return commissionEmployee::payroll() + base + base *
103
    0.1;
             }
104
105
106
107
    int main(){
108
109
        salariedEmployee s1("Will Smith", "111-11-1111", 4500.00);
110
        hourlyEmployee s2("Keanu Reeves", "222-22-2222", 100.00, 45.5);
111
        commissionEmployee s3("Ryan Reynolds", "333-33-3333", 15000.00,
112
    0.3);
        basePlusCommissionEmployee s4("Morgan Freeman", "444-44-4444",
113
    20000.00, 0.25, 5000.00);
114
        s1.print();
115
        s2.print();
116
        s3.print();
117
        s4.print();
118
119 }
```

```
u0_a362@localhost:~$ ./a.out
SALARIED EMPLOYEE :
> Name : Will Smith
> SSN : 111-11-1111
 > Weekly Salary : 4500
 > Payroll : 4500
HOURLY EMPLOYEE :
 > Name : Keanu Reeves
 > SSN : 222-22-2222
 > Hourly Rate : 100
> Hours Worked : 45.5
 > Payroll : 4825
COMMISSION EMPLOYEE :
> Name : Ryan Reynolds
> SSN : 333-33-3333
 > Gross Sales : 15000
> Rate : 0.3
> Payroll : 4500
BASE + COMMISSION EMPLOYEE :
COMMISSION EMPLOYEE :
> Name : Morgan Freeman
 > SSN : 444-44-4444
 > Gross Sales : 20000
 > Rate : 0.25
 > Payroll : 10500
> Base Salary : 5000
u0_a362@localhost:~$
```