```
1 #include <iostream>
 2 #include <string>
 3 #include <iomanip>
 4 using namespace std;
 6 class Employee
 7 {
 8 private:
 9
        string name;
10
        string number;
        string hireDate;
11
12
13 public:
14
        Employee()
15
        {
16
            name = "";
            number = "";
17
            hireDate = "";
18
19
        }
20
        Employee(string aName, string aNumber, string aDate)
21
22
            name = aName;
23
            number = aNumber;
            hireDate = aDate;
24
25
        }
26
        void setName(string n)
27
        {
28
            name = n;
29
        }
        void setNumber(string num)
30
31
        {
32
            number = num;
33
34
        void setHireDate(string date)
35
36
            hireDate = date;
37
38
        string getName() const
39
        {
40
            return name;
41
        }
42
        string getNumber() const
43
        {
            return number;
44
45
        }
46
        string getHireDate() const
47
48
            return hireDate;
49
        }
```

```
50 };
51 class ProductionWorker: public Employee
52 {
53 private:
54
        int shift;
55
        double payRate;
56 public:
       ProductionWorker() : Employee()
57
58
        {
59
            shift = 0;
60
            payRate = 0.0;
61
62
       ProductionWorker(string aName, string aNumber, string aDate,
63
            int aShift, double aPayRate) : Employee(aName, aNumber, aDate)
64
        {
65
            shift = aShift;
            payRate = aPayRate;
66
67
68
       void setShift(int s)
69
        {
70
            shift = s;
71
        }
72
73
        void setPayRate(double r)
74
        {
75
            payRate = r;
76
        }
77
       int getShiftNumber() const
78
79
            return shift;
80
        }
       string getShiftName() const
81
82
            if (shift == 1)
83
84
                return "Day";
85
            else if (shift == 2)
86
                return "Night";
87
            else
88
                return "Invalid";
89
        }
90
       double getPayRate() const
91
92
            return payRate;
93
       }
94 };
95
96 void displayInfo(ProductionWorker);
97
98 int main()
```

```
...inWindows\Desktop\DC\CMPT 1209\2023-2-Labs\Lab 07.cpp
```

```
3
```

```
99 {
         ProductionWorker pw("John Jones", "123", "10/12/2010", 2, 18.00);
100
101
         displayInfo(pw);
102
         return 0;
103 }
104 void displayInfo(ProductionWorker e)
105 {
         cout << setprecision(2) << fixed << showpoint;</pre>
106
107
         cout << "Name: "</pre>
108
              << e.getName() << endl;</pre>
109
         cout << "Employee number: "</pre>
              << e.getNumber() << endl;</pre>
110
         cout << "Hire date: "</pre>
111
112
              << e.getHireDate() << endl;</pre>
113
         cout << "Shift: "</pre>
114
              << e.getShiftName() << endl;</pre>
         cout << "Shift number: "</pre>
115
116
              << e.getShiftNumber() << endl;</pre>
117
         cout << "Pay rate: "</pre>
              << e.getPayRate() << endl;</pre>
118
119 }
120
```