```cpp
/*
Adam Novoa
CS 472
1/22/2015
*/

#include<iostream>
#include<string>

using namespace std;

class employee
{
private:
        string name;
        int idNumber;
        string department;
        string position;
public:
        employee(string n, int id, string dep, string pos)
        {
                name = n;
                idNumber = id;
                department = dep;
                position = pos;
        }
        employee(string n, int id)
        {
                name = n;
                idNumber = id;
                department = "";
                position = "";
        }
        employee()
        {
                name = "";
                idNumber = 0;
                department = "";
                position = "";
        }
        void setName(string n)
        {
                name = n;
                return;
        }
        void setIdNumber(int id)
        {
                idNumber = id;
                return;
        }
        void setDepartment(string dep)
        {
                department = dep;
                return;
        }
        void setPosition(string pos)
        {
                position = pos;
                return;
        }
```

```
            string getName()
            {
                    return name;
            }
            int getIdNumber()
            {
                    return idNumber;
            }
            string getDepartment()
            {
                    return department;
            }
            string getPosition()
            {
                    return position;
            }
};


int main()
{
            employee temp("name1", 1, "dep", "pos");
            employee temp2("name2", 2);
            employee temp3;

            cout << "Employee name: " << temp.getName() << " Id#: " << temp.getIdNumber()
                    << " Department: " << temp.getDepartment() << " Position: " <<
temp.getPosition() << endl;
            cout << "Employee name: " << temp2.getName() << " Id#: " << temp2.getIdNumber()
                    << " Department: " << temp2.getDepartment() << " Position: " <<
temp2.getPosition() << endl;
            cout << "Employee name: " << temp3.getName() << " Id#: " << temp3.getIdNumber()
                    << " Department: " << temp3.getDepartment() << " Position: " <<
temp3.getPosition() << endl;

            temp3.setName("New Name");
            temp3.setIdNumber(5);
            temp3.setDepartment("New Department");
            temp3.setPosition("New Position");

            cout << "Employee name: " << temp3.getName() << " Id#: " << temp3.getIdNumber()
                    << " Department: " << temp3.getDepartment() << " Position: " <<
temp3.getPosition() << endl;
            system("pause");
            return 0;
}
/*
Output
Employee name: name1 Id#: 1 Department: dep Position: pos
Employee name: name2 Id#: 2 Department:  Position:
Employee name:  Id#: 0 Department:  Position:
Employee name: New Name Id#: 5 Department: New Department Position: New Position

Press any key to continue . . .
*/
```