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# PROGRAMMING ADVICES

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**Mohammed Abu-Hadhoud**

MBA, PMOC, PgMP®, PMP®, PMI-RMP®, CM, ITIL®, MCPD, MCSD



حقوق النشر محفوظة، أسعار الكورسات في المنصة هي أسعار  
رمزية جدا، ارجو عدم نشر هذه الوثيقة لان نشرها سيمنعنا من  
الاستمرار في تقديم العلم للآخرين

ارجو عدم استخدام هذه الوثيقة من غير وجه حق لأنك ستحرم الاف  
الناس من التعلم

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```
#include <iostream>

using namespace std;

class clsPerson
{
private:
    int _ID;
    string _FirstName;
    string _LastName;
    string _Email;
    string _Phone;

public:
    clsPerson(int ID, string FirstName, string
LastName,string Email, string Phone)
    {
        _ID = ID;
        _FirstName = FirstName;
        _LastName = LastName;
        _Email = Email;
        _Phone = Phone;
    }

    //Read Only Property
    int ID()
    {
        return _ID;
    }

    //Property Set
    void setFirstName(string FirstName)
    {
        _FirstName = FirstName;
    }
}
```



```
//Property Get
string FirstName()
{
    return _FirstName;
}

//Property Set
void setLastName(string LastName)
{
    _LastName = LastName;
}

//Property Get
string LastName()
{
    return _LastName;
}

//Property Set
void setEmail(string Email)
{
    _Email = Email;
}

//Property Get
string Email()
{
    return _Email;
}

//Property Set
void setPhone(string Phone)
{
    _Phone = Phone;
}
```



## Multi Level Inheritance

```
//Property Get
string Phone()
{
    return _Phone;
}

string FullName()
{
    return _FirstName + " " + _LastName;
}

void Print()
{
    cout << "\nInfo:";
    cout << "\n-----";
    cout << "\nID      : " << _ID;
    cout << "\nFirstName: " << _FirstName;
    cout << "\nLastName : " << _LastName;
    cout << "\nFull Name: " << FullName();
    cout << "\nEmail    : " << _Email;
    cout << "\nPhone    : " << _Phone;
    cout << "\n-----\n";
}

void SendEmail(string Subject, string Body)
{
    cout << "\nThe following message sent
successfully to email: " << _Email;
    cout << "\nSubject: " << Subject;
    cout << "\nBody: " << Body << endl;
}

void SendSMS(string TextMessage)
{
    cout << "\nThe following SMS sent successfully to
phone: " << _Phone;
    cout << "\n" << TextMessage<<endl;
}

};
```



```
class clsEmployee : public clsPerson
{

private:
    string _Title;
    string _Department;
    float _Salary;

public:

    clsEmployee(int ID, string FirstName, string
LastName, string Email, string Phone, string Title, string
Department, float Salary)
        : clsPerson(ID, FirstName, LastName, Email,
Phone)
    {

        _Title = Title;
        _Department = Department;
        _Salary = Salary;
    }

    //Property Set
    void setTitle(string Title)
    {
        _Title = Title;
    }

    //Property Get
    string Title()
    {
        return _Title;
    }

    //Property Set
    void setDepartment(string Department)
    {
        _Department = Department;
    }
}
```



## Multi Level Inheritance

```
//Property Get
string Department()
{
    return _Department;
}

//Property Set
void setSalary(float Salary)
{
    _Salary = Salary;
}

//Property Get
float Salary()
{
    return _Salary;
}

void Print()
{
    cout << "\nInfo:";
    cout << "\n-----";
    cout << "\nID          : " << ID();
    cout << "\nFirstName : " << FirstName();
    cout << "\nLastName  : " << LastName();
    cout << "\nFull Name : " << FullName();
    cout << "\nEmail     : " << Email();
    cout << "\nPhone     : " << Phone();

    cout << "\nTitle      : " << _Title;
    cout << "\nDepartment: " << _Department;
    cout << "\nSalary     : " << _Salary;

    cout << "\n-----\n";
}

};
```



```
class clsDeveloper : public clsEmployee
{
private:
    string _MainProgrammingLanguage;

public:

    clsDeveloper(int ID, string FirstName, string
LastName, string Email, string Phone, string Title,
        string Department, float Salary, string
MainProgrammingLanguage)
        : clsEmployee(ID, FirstName, LastName, Email,
Phone, Title, Department, Salary)

    {
        _MainProgrammingLanguage =
MainProgrammingLanguage;
    }

    //Property Set
    void setMainProgrammingLanguage(string
MainProgrammingLanguage)
    {
        _MainProgrammingLanguage =
MainProgrammingLanguage;
    }

    //Property Get
    string MainProgrammingLanguage()
    {
        return _MainProgrammingLanguage;
    }
}
```



## Multi Level Inheritance

```
void Print()
{
    cout << "\nInfo:";
    cout << "\n_____";
    cout << "\nID          : " << ID();
    cout << "\nFirstName : " << FirstName();
    cout << "\nLastName  : " << LastName();
    cout << "\nFull Name  : " << FullName();
    cout << "\nEmail      : " << Email();
    cout << "\nPhone      : " << Phone();

    cout << "\nTitle       : " << Title();
    cout << "\nDepartment: " << Department();
    cout << "\nSalary      : " << Salary();
    cout << "\nPLanguage   : " <<
MainProgrammingLanguage();
    cout << "\n_____ \n";

}

};

int main()
{
    clsDeveloper Developer1(10, "Mohammed", "Abu-
Hadhoud", "A@a.com", "8298982", "Web Developer",
    "ProgrammingAdvices", 5000, "C++");

    Developer1.Print();

    Developer1.SendSMS("Hi mr Developer :-)");

    system("pause>0");
    return 0;
}
```