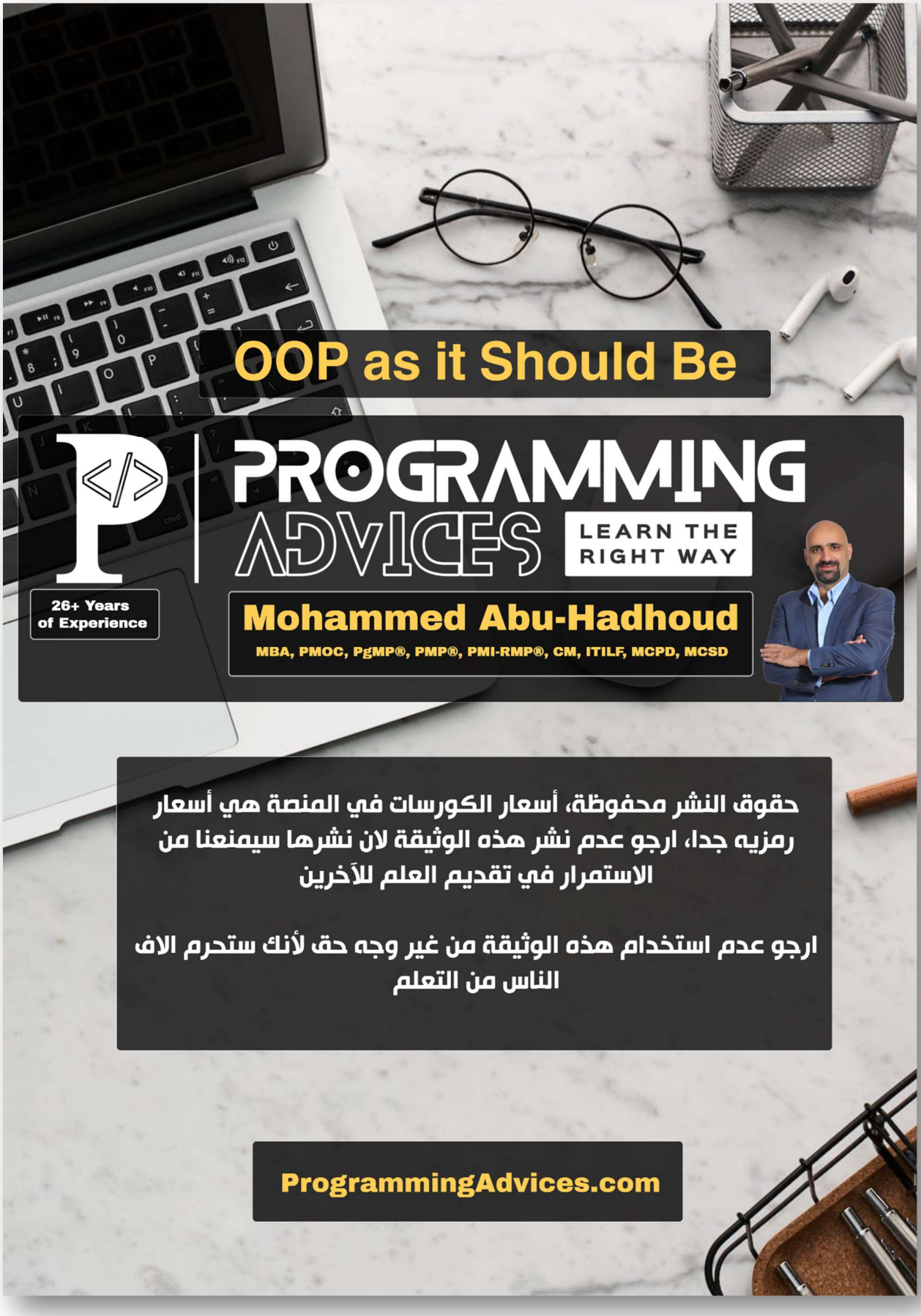
OOP as it Should Be
PROGRAMMING ADVICES
LEARN THE RIGHT WAY
26+ Years of Experience
Mohammed Abu-Hadhoud
MBA, PMOC, PgMP®, PMP®, PMI-RMP®, CM, ITILF, MCPD, MCSD
حقوق النشر محفوظة، أسعار الكورسات في المنصة هي أسعار رمزيه جدا، ارجو عدم نشر هذه الوثيقة لان نشرها سيمنعنا من الاستمرار في تقديم العلم للآخرين
ارجو عدم استخدام هذه الوثيقة من غير وجه حق لأنك ستحرم الاف الناس من التعلم
ProgrammingAdvices.com

```cpp
#include <iostream>

using namespace std;

class clsPerson
{

private:
    int _ID;
    string _FirstName;
    string _LastName;
    string _Email;
    string _Phone;

public:

    //we put the default constructor here temperorly becasue
inheritance will use it,
    //in the comming lectures we will solve the prametarized
constructor with inheritance.
    clsPerson()
    {

    }

   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;
}

//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:

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

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

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

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

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

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

```
int main()

{

    clsEmployee Employee1;

    Employee1.setFirstName("Mohammed");
    Employee1.setLastName("Abu-Hadhoud");
    Employee1.setEmail("a@a.com");
    Employee1.Print();
    Employee1.SendEmail("Hi", "How are you?");

    Employee1.setSalary(5000);

   cout << "Salary is: " << Employee1.Salary();

   //Calling the print will not print anything from derived class,
only base class
   //therfore the print method will not serve me here, this is a
problem will be solved in the next lecture.
   Employee1.Print();


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