



student CLASS EXAMPLES

Translating UML to C++



THE UML student CLASS

student

- name : string = ""

- wnum : int = 0

+ student()

+ student(n : string, i :int)

+ display() : void

- Language agnostic
 - No strong naming convention
 - Translate features as a language requires
- The UML class diagram does not specify function bodies (i.e., algorithms)



```
class student
{
    private:
        string name;
        int     wnum;

    public:
        student(string n, int i)
        {
            name = n;
            wnum = i;
        }

        void display()
        {
            cout << name << ", " << wnum << endl;
        }
};
```

THE student CLASS EXAMPLE



CONSTRUCTOR OPTIONS

```
student(string n, int i)  
    : name(n), wnum(i) {}
```

```
private:  
    string name = "";  
    int      wnum = 0;
```

```
student() {}
```



USING THE student CLASS

```
int main()
{
    student sb_pres("Alice", 123);
    sb_pres.display();

    student class_pres("Dilbert", 987);
    class_pres.display();

    return 0;
}
```