OBJECT ORIENTED PROGRAMMING

Intro (Terminology)

classes

- o a class has its own variables and methods
- o acts as a template from which similar objects called instances are created
- when you want to create an object the <u>new</u> operator is used with the class name or constructor (which has the same name as the class)

objects

- every object is an <u>instance</u> of a class
- the members (variables/methods) of an object are accessed using dot notation

Creating Your Own Class and using it

- class
- fields (private)
- properties (get/set) public
- methods
- constructors

Advanced Concepts

Encapsulation

- o hiding details of an object from other parts of a program
- the object can be used only through its access methods, which are written to keep the object consistent and secure

Static Methods

o don't need to make instance of class to use

Method Overloading

- two methods of a class have the same name but different parameter lists
- Inheritance