

- Clone -> Bring a repository that is hosted somewhere like Github into a folder on your local machine
- add -> Track your files and changes in Git
- commit -> Save your files in Git
- push -> Upload Git commits to a remote repo, like Github
- pull -> Download changes from remote repo to your local machine, the opposite of push

BOOK Review: Ch.1

- Encapsulation: hide the inner details of functions, methods and objects. Functions and methods encapsulate behavior, and objects (instances of a class) encapsulate data as well as behavior.
- Inheritance: allows you to reuse already defined classes by extending their 1 Stiget modifications

· Class templates: Allow you to del that are independent of the type Stored in the data structure

Notes: Ctt Classes:

- · Header files partially separate the d from its implementation.
- · A constructor allocates memory for new insta initialize the object's Lata to specified Value an instance of a class when the object's li
- ·To provide a public interface for an an abstract base class. This allows the advantage of polymorphism.
- · Virtual Method: tells the compiler tha executes is determined at runtime. L
- Declaring ADT methods as virtual all using our class to take advantage of Pol methods are invoved.
- · A pure virtual method is a virtua implementation. An abstract class is one that
- · AbStract classes cannot be directly insta

ine classes of data

esign of a class

nes of a class and can s. A destructor destroys fetime ends.

ADT, you can write client to take full

t the code this method by Use one?? ows an application ymorphism when the ADT's

method that has no has at least 1 pure virtual methods

unti ated

encapsulate data as well as behavior.

- «Inheritance: allows you to reuse already defined classes by extending their definitions or making Slight modifications
- · Polymorphism: Objects determine appropriate opperations at execution time.
- · Data Abstraction: technique for controlling the interaction between a program and its data Structures. It builds walls around a program's data Structures, just as other aspects of modularity build walls around a program's algorithms. These walls make programs Easier to design, implement, read and modify.
- * Coupling: a measure of the dependence among modules. Modules should be loasely coupled.

 A function or method should be as independent as possible.
- -For problems that primarily involve data management, encapsulate data with operations on that data by designing classes. Practice abstraction: focus on what a module does instead of now.

a Set of operations on

ADT: collection of data and C++ Review:

- ·Class templates allow you to define classes that are independent of the type Of data Stored in the data Structure. When a client is leady to instantiate an Object of the Class the client can Specify the type of data the object holds.
- · Header (.h) Files partially separate the design of a class from the implementation.
- To provide a public interface for an ADT (abstract data type), you can write an abstract base class, separating design from implementation and allows us to take advantage

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