Today - Lecture #9

- 1. Learn about the "class" construct Topic 3
- 2. Apply classes to the "show" list problem

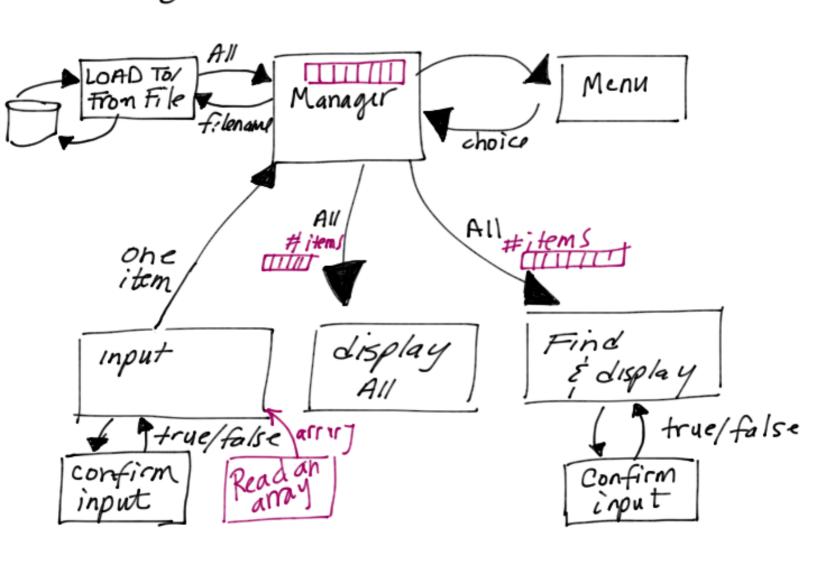
Announcements

* Make sure to watch class tectures

and practice with Small programs

During Lecture 8

1) A "show" Hem has a title, description, etc.
2) Allow the user to enter these, find the highest rating, find a particular show based on name and display all. (and more!)



Now... using [classes]

1) Design the solution by thinking about the Idata! and thinking about what operations make sense working on that data - GROUPING IT TOGETHER Show ITEM create an ONE item _input an name, description, compare the compare rating Show List create add Array of items display all Number of items ELV9/

Start small & incrementally Implement

class show_item //one 2 public: // interface show_item (); //constructor data
members int add();
int add(char name CI, char des(I, int rating); int display-all(); bool find (char match []); private: // data char name [41]; char description [131]; } data int rating; 1 0 mandatory

Class Construct

class -> data type object -> Variable, instance of a data type class interface -> where we declare functions (function prototypes) and specify the data that will be available for all objects of this class. member function prototypes -Accessible by functions outside of this class private: -place data members here only accessible by functions inside this "class supe" (or friends)

Multiple Files · h file (declarations) 1) # includes 2) constants 3) structs also prototypes 4) class interfaces 5) DO NOT implement the "body" of functions in the .h file 6) DO NOT #include any opp file

ecpp files (implementation file)

function definitions

1) #include "~.h" goes to your

2) Function bodies current working directory

3) There can be only / main function in all of the .cpp files put together

On unit, compile via:

g++ main. app video. app

or

g++ *-cpp

this works if all of the functions in your directory

are part of this "project"

To use the gdb or ddd debuggers, compike with the -g option g++-g *-gp

When implementing member functions 1) In the app file ALL prototypes listed in the class interface (.h) Must be implemented 2) Preced function name with the class name and the scope resolution operator (::) Video: Video() 11 body of the function Void (video 33) display()

11 body of the function