

10/11/17

String[] → array of strings

for (int i=0; i < number of Times; i++)

System.exit → quits program

* Objects:

integer + integer → date

instance variables - generalization

① What it knows

② " " can do

Constructor

• Array Lists

* Once an array is built, it can't be resized.

- class arrays helps you avoid reinventing the wheel by providing static methods

- these methods include sort for sorting an array

- collections provide efficient methods that organize, store, & retrieve your data w/out requiring knowledge.

- collection class `ArrayList<T>` can dramatically change its size.

`ArrayList <String> myArrayList = new ArrayList <String> ();`

- (<>) allows you to specify things to be stored in a collection.
- specify item to be built

primitive

int

char

float

reference

Integer

Character

Float

When using ArrayList, must use reference type.

Chapter 7: Intro to Classes & Objects 10/16/17

- each class you create becomes a new type that can be used to declare variables & create objects.



instance variable - maintain data for each object of the class

- reference to the current object in scope
- Class names start w/capital letter
- private - accessible only inside that class

* principle of least privilege

* Encapsulation

Next - reads characters until any white-space character is encountered, then returns characters as keys.

ex: John Smith

Next tokenizes a string.

class instance creation expression - begins w/ keyword new & creates new object

ex: Account myAccount = new Account();



Constructor

instantiation expression - invoke Account(constructor)

enum - countable

- defining a new type

pg. 252

→ (same as class name)

• Constructor - point is to initialize instance variables

• getter methods / queries

• setter methods / command

• object's state - methods that change state, don't return anything.

• returns something, but doesn't change anything

default initial value for string - null

• compile multiple files w/ (*) → Matches something

• if you have instance variables, you will have constructor that initializes instance variables

this.name = name

means me / my
current object in scope

State - current status of an object

• %f allows us to output decimals

%0.2f → " " " 2 " points

• Code duplication

⇒ call it, go back

• (-) minus = private

(+) plus = public

266

7.12s:

Count

Count % 13

Count / 13

0

Ace 0

0 hearts

1

deuce 1

0

2

3 2

0

3

3

:

:

:

:

12

12

0

13

Ace 0

1 diamonds

14

1

