CIS 1068

September 10, 2019
Administrative Stuff

- Reading: ch 4. start ch 5?
- Assignment 2 posted. Assignment 3 soon
Career Stuff. Google Visit

- Today and tomorrow
- Resume workshop, coaching, information about hiring
Last Time

- Review of functions, parameters, return values. Use them!
- Classes
  - define new data types
  - data + behavior (i.e., methods)
- Class vs Object. Cookie vs cookie-cutter. iPhone blueprint vs iPhone
  - an object is an instance of a class
  - “beach day” is an instance of String
Java String

- Sequence of char
- Indexed same as strings in C and Python
  - range: 0 to length-1
- What can we do with them?
  - +
  - length()
  - charAt(index)
  - substring(index1, index2), substring(index)
  - toUpperCase(), toLowerCase()
String. Some key differences

- no [] operator. use charAt method
- Java Strings *not* arrays. They’re objects of String class
- can’t modify them. For example, can’t do:
  ```java
  String s = "breakfast";
  s.charAt(0) = 'B';
  
  How might we do this instead?
Not built into language. Need import

Scanner use:

1. Create the Scanner
   ```java
   Scanner kbd = new Scanner(System.in);
   ```
2. Read from the Scanner
   ```java
   int minsRemaining = kbd.nextInt();
   ```

We do *not* need to create multiple Scanners attached to the same input source
What we can do with Scanners

So far, we know 4 things:

▷ `nextInt()`
▷ `nextDouble()`
▷ `next()`
▷ `nextLine()`