2016 GIRLS' CODING CAMP

Beginner Section

DAY 4: CONSOLE IO

- I/O stands for input/output
- To use ConsoleIO, you must create a ConsoleIO object (ConsoleIO console = new ConsoleIO();)

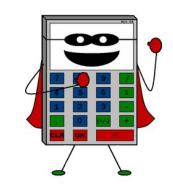
Methods:

- int n = console.readInt();
- double d = console.readDouble();
- String token = console.readToken();
- String line = console.readLine();
- * REMEMBER: 'import apcslib.*;' at top of program

CHANGE CALCULATOR

- Prompt user for Total Cost
- Prompt user for Amount Paid
- Calculate and output change as # of dollar bills, # of quarters, # of dimes, # of nickels, and # of pennies
 - O Hint: consider using / and %
 - Challenge: Ask user if they want to run again and repeat as long as input is "yes"
- * Typecasting from double to int fix round-off error:

Int value = (int)(double value + 0.00001)



CHOOSE YOUR PROJECT

- Magic 8 Ball
- Piglatinator
- Your Own Choice (Check with teachers)

MAGIC & BALL INSTRUCTIONS

- Math.random() generates a random number x such that
 0 <= x < 1
- Have a predefined set of responses
- Prompt the user for a question
- Use Math.random() to randomly choose one of your preset responses and display to the user
- Allow user to ask again without rerunning program



PIGLATINATOR INSTRUCTIONS

- Prompt user for a word
- Apply Piglatin rules and display output



PigLatin Rules:

- Words starting with vowel, add "yay" to the end
- Otherwise, take all consonants up to first vowel/"y" and move it to end of word. Then add "ay"