

CSC116 - DISCUSSION 5

GINA BAI

LOGISTICS

- Office hours rescheduled next week Memorial Day
 - Was 12 2pm, Monday
 - Now
 - 12 1pm, Tuesday
 - 12 1pm, Wednesday

PROJECT 1

- Project 1 → Weather Calculator
 - variables, constants, expressions
 - print statements via System.out
 - Scanner objects
 - Math class
 - equality, relational, and logical operators
 - conditional structures
 - debugging techniques, and
 - system testing (black-box testing)

TOPICS

- Switch statements
 - switch
 - case
 - break
 - default
- Conditional expressions
 - result = someCondition ? value1 : value2;
- System testing for conditionals

- Strings
 - Index starting from 0
- Character operations
- Scanner with strings

STRINGS

```
>JAVA
 1 /**
    * Example that uses String objects
    * and String methods
    * @author Jessica Young Schmidt
  public class StringExample {
       /**
        * Starts program.
10
11
        * @param args command line arguments
12
13
       public static void main(String[] args) {
14
           String question = "How are you?";
15
           String response = "I am fine. Thanks.";
16
           System.out.println(question.length());
17
           System.out.println(response.length());
18
19
           System.out.println(question.length()
                                                    // 30
20
               + response.length());
           String sub1 = question.substring(3, 7);
23
           System.out.println(sub1.toUpperCase()); // _ARE
24
25
           String sub2 = response.substring(7);
           System.out.println(sub2.toLowerCase()); // ne. thanks.
26
28
29 }
```

STRINGS

```
>JAVA
 1 import java.util.Scanner;
 3 public class ScannerExample {
       public static void main(String[] args) {
           Scanner console = new Scanner(System.in);
           System.out.print("Enter course: ");
           String course = console.next();
           System.out.println("You are currently taking " + course);
10
           System.out.print("Enter course: ");
11
           course = console.next();
12
           System.out.println("You are currently taking " + course);
13
14
15
           System.out.print("Enter course: ");
           course = console.next();
16
           System.out.println("You are currently taking " + course);
17
18
19 }
➤TERMINAL
```

```
$ java -cp bin ScannerExample
Enter course: CSC116
You are currently taking CSC116
Enter course: E101
You are currently taking E101
```

You are currently taking E115

Enter course: E115

One token a time

STRINGS

```
>JAVA
 1 import java.util.Scanner;
 3 public class ScannerExample {
       public static void main(String[] args) {
           Scanner console = new Scanner(System.in);
           System.out.print("Enter course: ");
           String course = console.next();
           System.out.println("You are currently taking " + course);
10
           System.out.print("Enter course: ");
11
           course = console.next();
13
           System.out.println("You are currently taking " + course);
14
           System.out.print("Enter course: ");
15
16
           course = console.next();
           System.out.println("You are currently taking " + course);
17
18
19 }
➤TERMINAL
```

```
$ java -cp bin ScannerExample
Enter course: CSC116 E101 E115
                                          All tokens in a single line
You are currently taking CSC116
Enter course: You are currently taking E101
```

Enter course: You are currently taking E115

LAB 5

- > Flavors.java
 - Prompts the user to enter a flavor represented by the String
 - "o" or "O" for Orange,
 - "c" or "C" for Cherry, and
 - "I" or "L" for Lime.
 - Use a switch statement to output
 - "Orange", "Cherry", "Lime", or "Invalid flavor" based on the letter.
 - Output "Invalid flavor" and exit the program if the String entered by the user does not have exactly one character.

LAB 5



- MovieTheater.java
 - Prompts the user for
 - the number of adult and child tickets to purchase
 - Prompts whether the movie showing is a matinee. (y / n)
 - anything that starts with "y" or "Y", it is a matinee.
 - Adult tickets cost \$12 and child tickets cost \$10. There is a \$3 discount for each matinee ticket.
 - Output "Invalid value" and exit the program if either number of tickets is less than 0.
 - Output the price of the tickets formatted as \$xx.00