CSE 11
Accelerated Intro to Programming
Discussion Section 1

Shihua Lu, Spring 2021

This discussion is being recorded

Shihua Lu

- Office hours: Friday 11am - 12pm or by appointment
  - https://ucsd.zoom.us/j/4815370544
- Email: s5lu@ucsd.edu

Logistics

- Section attendance is not mandatory

- Section recordings will be made available on canvas

- Slides will be uploaded to github
  - https://github.com/ucsd-cse11-sp21/ucsd-cse11-sp21.github.io

Java

- Setting up your environment: Complete PA 0.5 ASAP
  - Come to tutoring hours if things aren't working properly
  - Make sure you and the tutor helping you are working on the same operating system

- Terminal / Commandline
  - Mac os / linux
  - Windows

Lecture recap

keyword

```
class DiscussionExample{
    int x = 1 + 1;
}
```

field name

type of the field

optional

```
main() {

}
```

./run
.\run.bat

concrete value : 0, 5, ''
expression : 1+2, (1+1)*5

- class DiscussionExample:
  - Declare a class called DiscussionExample
  - File name should match class name: DiscussionExample.java

- int x = 1 + 1;
  - Declare a field called x
  - x is of type int (stands for integer values)   *Java cares about types*
  - x has value 1 + 1

Methods — member functions

```
class DiscussionExample{
    int x = 1 + 1;
    int exampleMethod(int y, int z){
        return this.x + y + z;
    }
}
```

return type

name of the function

the parameter

name of the parameter

type of the parameter

PA 1

- Just released, due next Wednesday at 11:59pm PST
- Write a few methods
- Problem 1: Perimeter
  - Given the width and height of a rectangle, compute its perimeter
- Problem 2: Border Area
  - Given the width and height of two rectangles, compute the area of the region between them
- Problem 3: Converter
  - Write some conversion. For example, Fahrenheit to Celsius
  - Keep in mind the return value should be an int as well

PA1 cont'd

- Problem 4: Combiner
  - Combine two integers into one. For example, feet and inches into inches
  - Again, keep in mind the return type requirement
- Testing:
  - Can assign the return value of a method to a variable and use `run` or `run.bat` to view the result
  - `int result = exampleMethod(1,2);`
- Submission:
  - Upload DesignRecipeExamples.java to gradescope

Thanks!