CSE 121 – Lesson 8

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Music: 🌸k-pop girlies playlist🌸

sli.do #cse121
Announcements, Reminders

- Programming Assignment 1 Election Sim due yesterday! Slay!
- Creative Project 2 released later today, due next Tuesday 7/25 @ 11:59 PM
- Resub 2 is due tomorrow 7/20 11:59 PM
- Quiz 1 (Take-home): next Monday 7/24
  - Will be on: Methods (Param & Returns), Conditionals, While Loops, Scanner
- Final exam August 8/16 4:30 – 6:30 PM in PAA A102
  - If you have a conflict reach out-reach out ASAP – the expectation is you all can make that time.
(Last Time) **Conditionals**

```java
if ( test ) {
    statement(s)
} else {
    statement(s)
}
```

Executes a block of statements if the test is true, executes another block of statements if the test is false.
while (test) {
    body (statements to be repeated)
}

Repeatedly executes its body as long as its logical test is true.
(PCM) Scanner

An **object** that we can use to *read in input*

In the `java.util` package

```java
Scanner console = new Scanner(System.in);
```

<table>
<thead>
<tr>
<th>Methods</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>nextInt()</code></td>
<td>Reads the next token from the user as an int and returns it</td>
</tr>
<tr>
<td><code>nextDouble()</code></td>
<td>Reads the next token from the user as a double and returns it</td>
</tr>
<tr>
<td><code>next()</code></td>
<td>Reads the next token from the user as a String and returns it</td>
</tr>
<tr>
<td><code>nextLine()</code></td>
<td>Reads an <em>entire line</em> from the user as a String and returns it</td>
</tr>
</tbody>
</table>
(PCM) Tokens

A unit of user input, as read by the Scanner
- Tokens are separated by *whitespace* (spaces, tabs, new lines)

23 John Smith 42.0 "Hello world" $2.50 " 19"
Fencepost Pattern

Some task where one piece is repeated $n$ times, and another piece is repeated $n-1$ times and they alternate