Announcements

- Next QZ and Videos due Tuesday when class starts
  - They are up!

Q1. Review Nested IF

- What happens if the diningTable has width 1.7 and depth 1.0?
  - diningTable says hello and is resized larger by 1.2
Q2. Logic Review

- What are possible values of $A$ and $B$
  - if $A$ and $B$ is True?
  - if $A$ or $B$ is True?
  - if $A$ or $B$ is False?

Logic Truth Table

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>not A</th>
<th>A and B</th>
<th>A or B</th>
</tr>
</thead>
<tbody>
<tr>
<td>True</td>
<td>True</td>
<td>False</td>
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- A AND B is true only if both $A$ and $B$ are true
### Logic Truth Table

A OR B is **false** only if both A and B are **false**

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Q3. Consider this code – Nested Ifs
How would you write it with ONE IF?

```java
if (this.diningTable.getOpacity() > 0.99) {
    if (this.alien.isBehind(this.diningTable)) {
        this.alien.serveFood();
    } else {
        this.alien.say("No service today");
    }
} else {
    this.alien.say("No service today");
}
```

Rewrite Code - one IF with AND

```java
if (this.diningTable.getOpacity() > 0.99) &&
    (this.alien.isBehind(this.diningTable)) {
    this.alien.serveFood();
} else {
    this.alien.say("No service today");
}
```

Q4. What does bunny say?

Bunny is red to start.
Q4. What does bunny say?

Bunny is red to start.

Bunny says:
second

10/7/21

Q5. Bunny different. What does bunny say?

Bunny is green to start.

Bunny says:
third

10/7/21

Q6. Give an example to make bunny say fourth

Bunny is painted red AND
Panda is shorter than bunny

10/7/21
Q6. Give an example to make bunny say fourth

Bunny is painted red AND
Panda is shorter than bunny

NO!!!!!!!!!!!!!!!
No way bunny will ever say fourth!

Class Today

- Nested Ifs, Logic – and/or/not