Software Carpaccio
(http://alistair.cockburn.us/Elephant+Carpaccio+exercise)

Learning outcomes
- How to slice large applications into 1-day to 1-week requests, business perspective
- How to slice application requests into 15-30 minute work slices, programming perspective

Instructions
1. Break into teams of 2-3 people, one workstation per team.
2. **10 minutes:** Preparation - Each team writes down on paper the 10-20 demo-able user stories ("slices") they will develop and possibly demo. Each should be doable in 3-8 minutes. No slice is just mockup of a UI, creation of a data table or data structure. All demos show real input & output (not test harness).
3. **15 minutes:** Discussion - Instructor/facilitator leads discussion of the slices, what is and isn't acceptable, solicits ways to slice finer.
4. **40 minutes:** Development - A fixed time-box of 40 minutes, five 8-minute development sprints, clock does not stop. At the end of each sprint, each team shows its product to another team.
5. Debrief

Assignment
Accept 4 inputs from the user:
- number of items,
- a price,
- a 2-letter state code.
- a date (only for spreadsheets)

**Stage 1:** Create a 1-line calculator that computes the price of the order, giving a discount based on the order value (not number of items), adding state tax based on the state and the discounted order value.

<table>
<thead>
<tr>
<th>Order value</th>
<th>Discount rate</th>
<th>State</th>
<th>Tax rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>$ 1,000</td>
<td>3 %</td>
<td>UT</td>
<td>6.85 %</td>
</tr>
<tr>
<td>$ 5,000</td>
<td>5 %</td>
<td>NV</td>
<td>8.00 %</td>
</tr>
<tr>
<td>$ 7,000</td>
<td>7 %</td>
<td>TX</td>
<td>6.25 %</td>
</tr>
<tr>
<td>$10,000</td>
<td>10 %</td>
<td>AL</td>
<td>4.00 %</td>
</tr>
<tr>
<td>$50,000</td>
<td>15 %</td>
<td>CA</td>
<td>8.25 %</td>
</tr>
</tbody>
</table>

**Stage 2 for spreadsheets only:**
Create a set of orders from different months and different states.
Produce a report as histogram of sales results by state, then a second sales report histogram of sales results by month.
Create a PowerPoint presentation that shows your sponsors what you have created, with the formula you used, sample inputs and outputs, the sales history and the graphs.