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Technology & Startup School

Check-point
Session 5: Lab

Video 1.1 Learn how to create a random number from 0 to 1

For example:
First run: 0.67
Second run: 0.03

Video 1.2 Learn how to randomly pick an item from an array

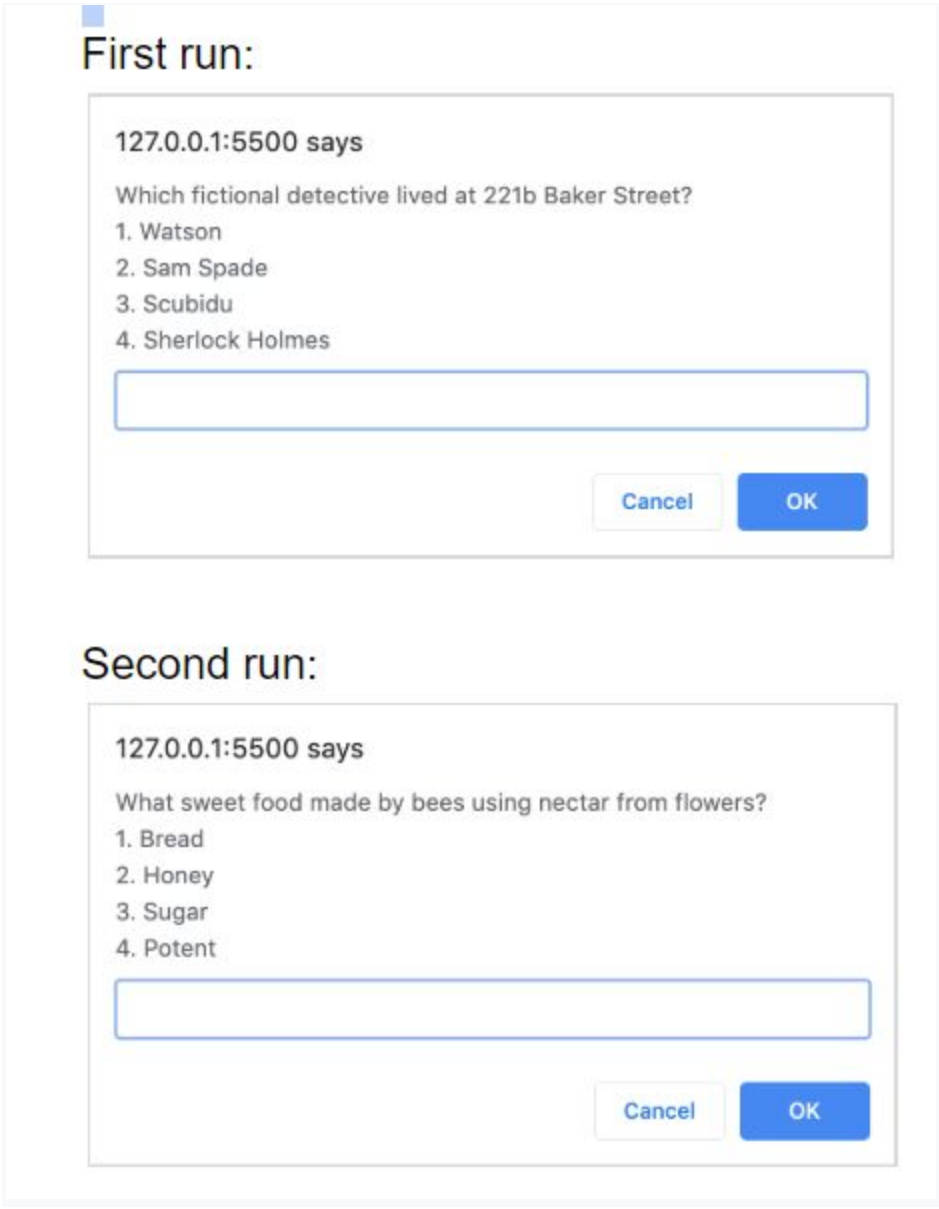
For example:
Array: [2, 5, 6, 9, 10]
First run: 5
Second run: 9

Video 1.3 C4EJSLab - Basic - part 3

Create a data structure to represent a list of quizzes, each quiz contains a question, 4 choices and rightChoice. Create it then ask your mentor to review your data before moving to the next exercise

Video 1.4 C4EJSLab - Basic - part 4

Write a script to randomly select a quiz from the list above, show them to users

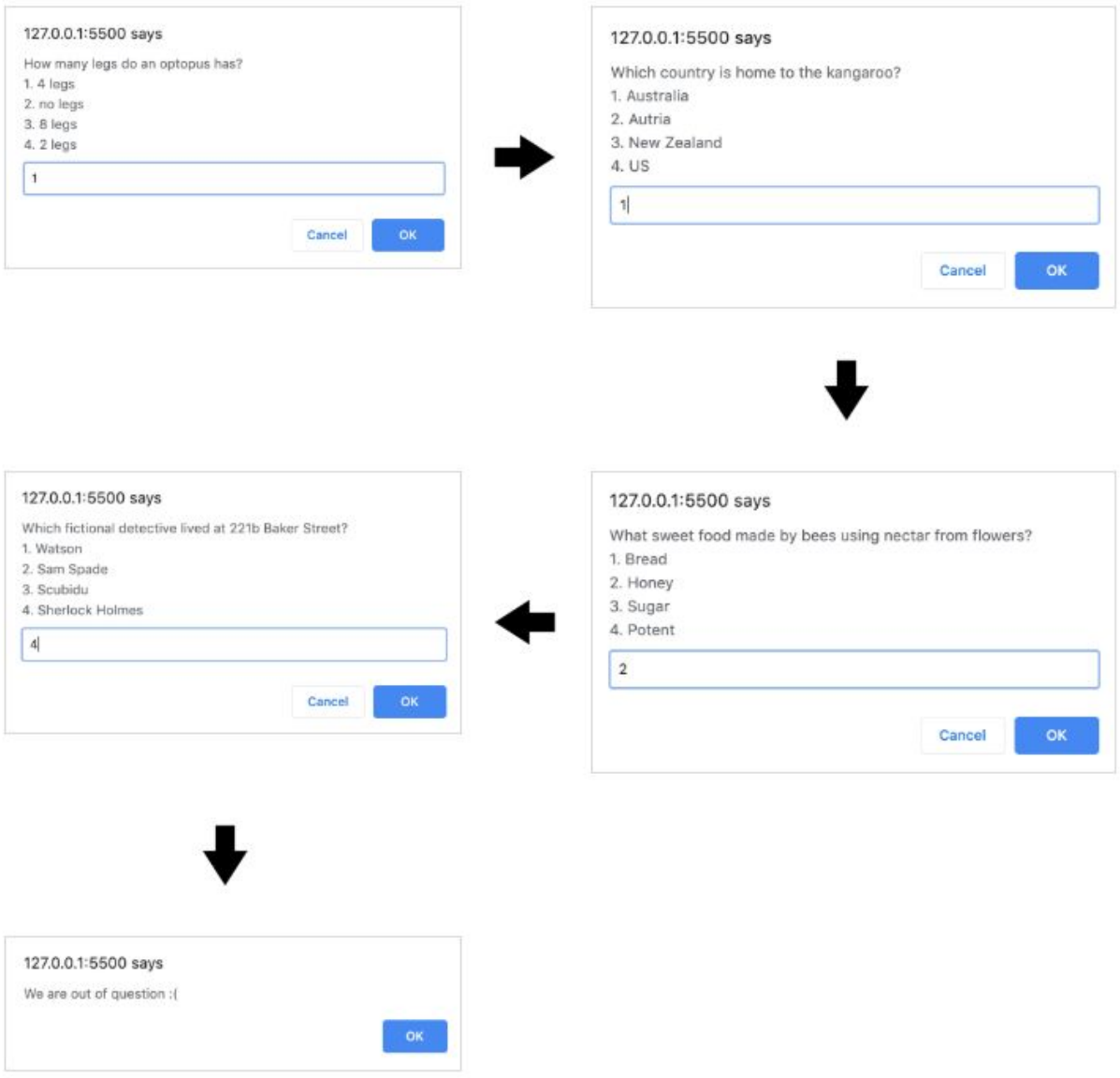


Video 1.5 C4EJSLab - Basic - part 5

Let users answer then let them know whether they are correct

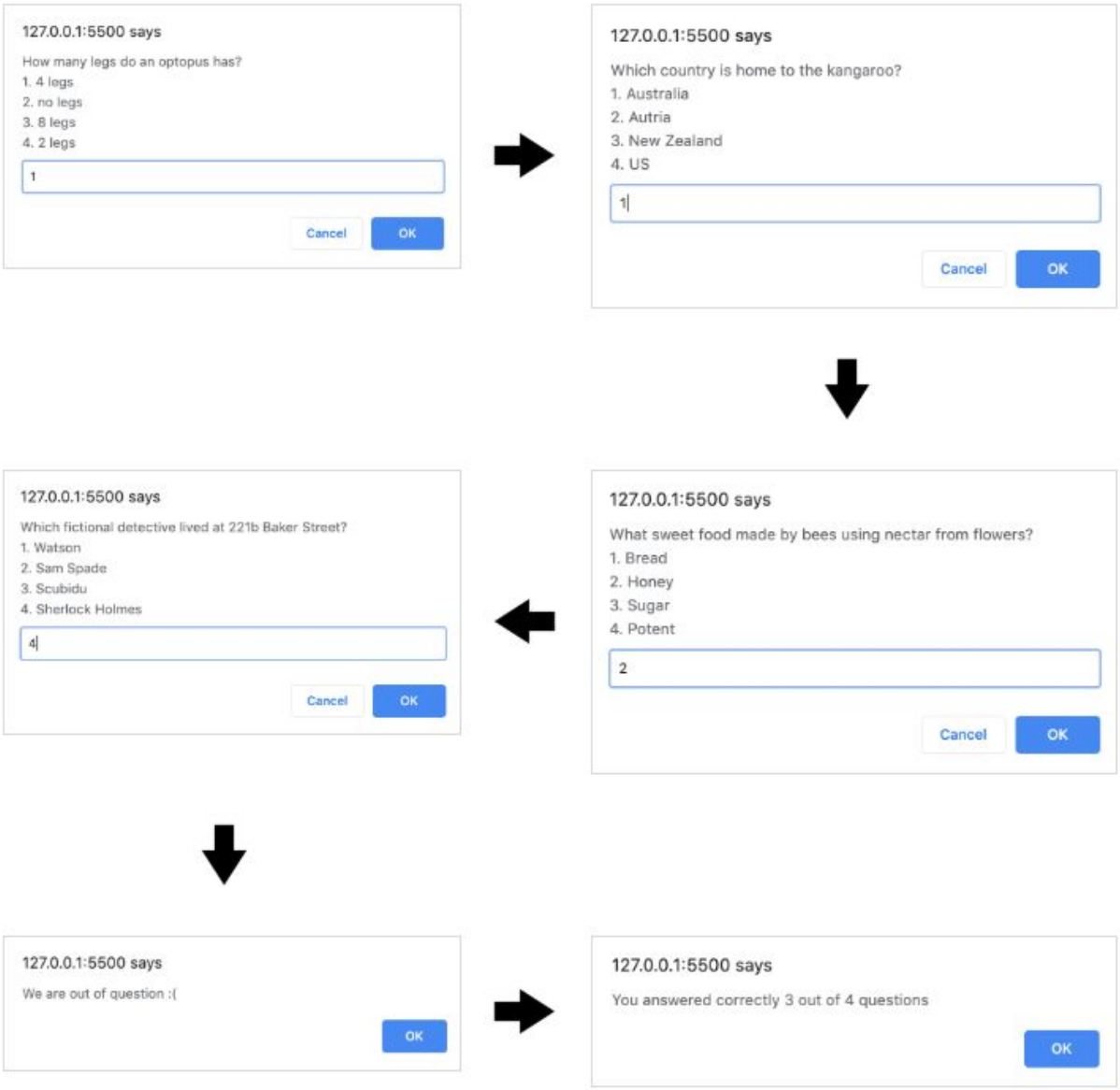
Video 1.6 C4EJSLab - Basic - part 6

Let it run continuously, make sure each question only appears once, if the questions has run out, let users know (note that the result showing to users are omitted in the figure below)



Video 1.7 C4EJSLab - Basic - part 7

Calculate the total points of users



Video 1.8 C4EJSLab - Basic - part 8

(Optional) Shuffle the choices each time you show users the quiz

Video 2.1 C4EJSLab - Basic - part 1

Here are the following list of words

[‘to’, ‘be’, ‘that’, ‘of’, ‘elon’, ‘to’, ‘this’, ‘now’, ‘back’, ‘cool’, ‘hey’, ‘love’, ‘of’, ‘life’, ‘that’, ‘rain’, ‘summer’, ‘color’, ‘now’, ‘of’, ‘hat’, ‘late’, ‘sorry’, ‘my’, ‘team’]

Write a program to count the occurrences of the words

Video 2.2 C4EJSLab - Basic - part 2

Create and array to store a list of laptops in inventory, the data is as follow

```
const inventory = [
{
    name: 'HP Envy 13aq',
    price: 21000,
    brand: 'HP',
    quantity: 5,
```

```
},
{
    name: 'Dell XPS 9370',
    price: 30000,
    brand: 'Dell',
    quantity: 1,
},
{
    name: 'Dell Inspiron 3567',
    price: 9300,
    brand: 'Dell',
    quantity: 12,
},
{
    name: 'Dell Latitude E5450',
    price: 8600,
    brand: 'Dell',
    quantity: 2,
},


{
    name: 'Asus Zenbook',
    brand: 'Asus',
    price: 20000,
    quantity: 4,
},
{
    name: 'HP Pavilion',
```

```
    brand: 'HP',
    price: 14000,
    quantity: 7,
},]
```

Video 3.3 C4EJSLab - Basic - part 3

The above data is good to deal with all of the laptops equally, but when it comes to grouping the items by brand, it should be reshaped as below. Write a program to do the reshaping from inventory, from now, use the reshaped data to process

```
const inventory = [
{
    name: 'HP Envy 13aq',
    price: 21000,
    brand: 'HP',
    quantity: 5,
},
{
    name: 'Dell XPS 9370',
    price: 30000,
    brand: 'Dell',
    quantity: 1,
},
{
    name: 'Dell Inspiron 3567',
    price: 9300,
    brand: 'Dell',
    quantity: 12,
},
{
    name: 'Dell Latitude E5450',
```

```
    price: 8600,
    brand: 'Dell',
    quantity: 2,
  },
  {
    name: 'Asus Zenbook',
    brand: 'Asus',
    price: 20000,
    quantity: 4,
  },
  {
    name: 'HP Pavilion',
    brand: 'HP',
    price: 14000,
    quantity: 7,
  },]

let inventoryByBrand = {}
// Your reshaping code here
console.log(inventoryByBrand);
// Result:
```

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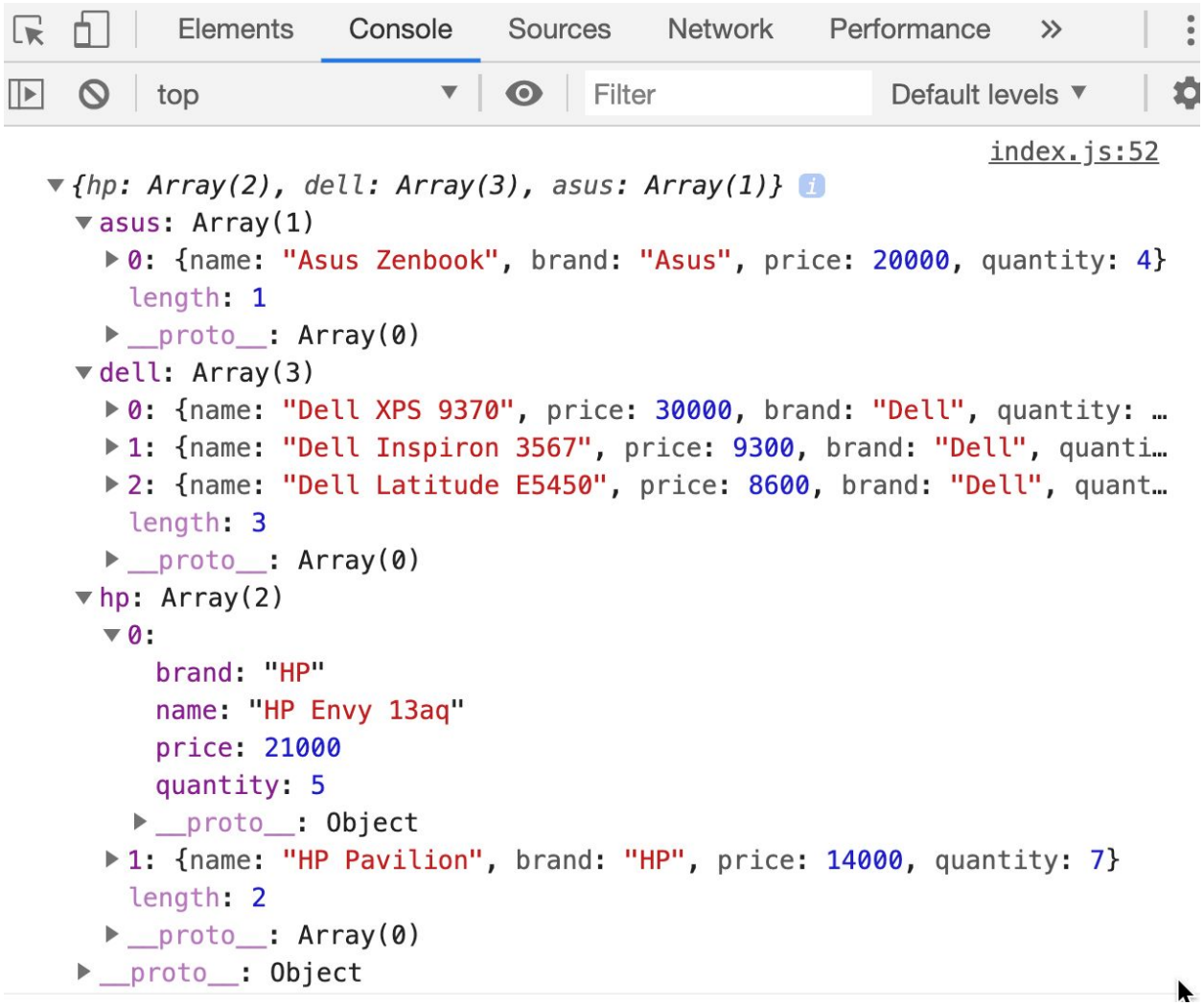
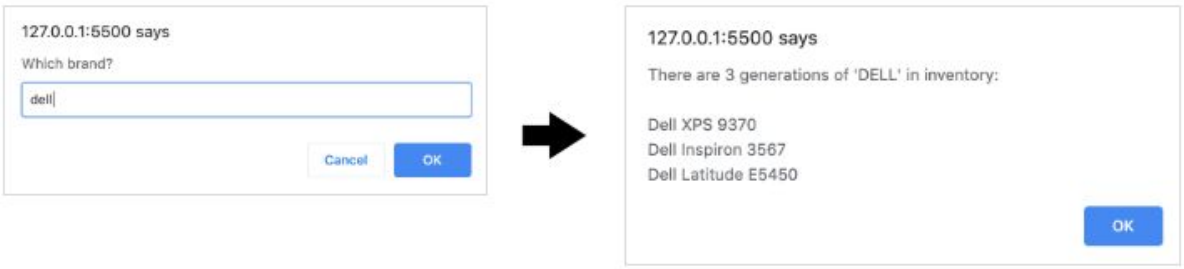


Video 2.4 C4EJSLab - Basic - part 4

From inventoryByBrand, write a program to count the generations of a certain brand in the inventory

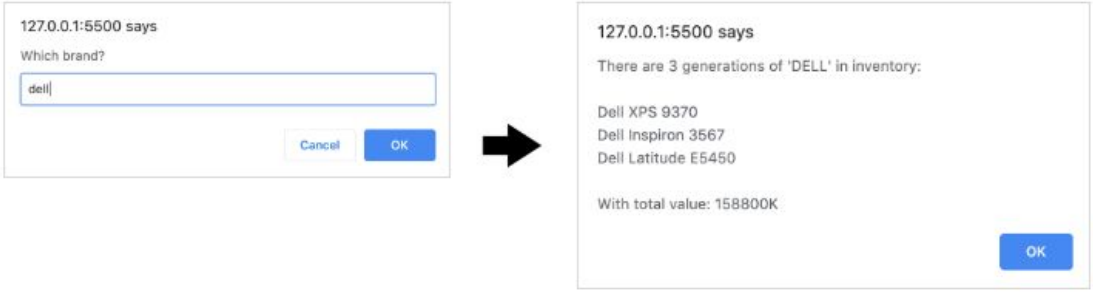
Video 2.5 C4EJSLab - Basic - part 5

Add more details in the statistics



Video 2.6 C4EJSLab - Basic - part 6

Add more++ details in the statistics (30000 + 9300 * 12 + 8600 * 2 => 158800)



Video 2.7 C4EJSLab - Basic - part 7

Better concurrency display Google 'JS toLocaleString'