

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 C4EJS Lab - 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 C4EJS Lab - Basic - part 4

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

First run:

127.0.0.1:5500 says

Which fictional detective lived at 221b Baker Street?

1. Watson
2. Sam Spade
3. Scubidu
4. Sherlock Holmes

Cancel

OK

Second run:

127.0.0.1:5500 says

What sweet food made by bees using nectar from flowers?

1. Bread
2. Honey
3. Sugar
4. Potent

Cancel

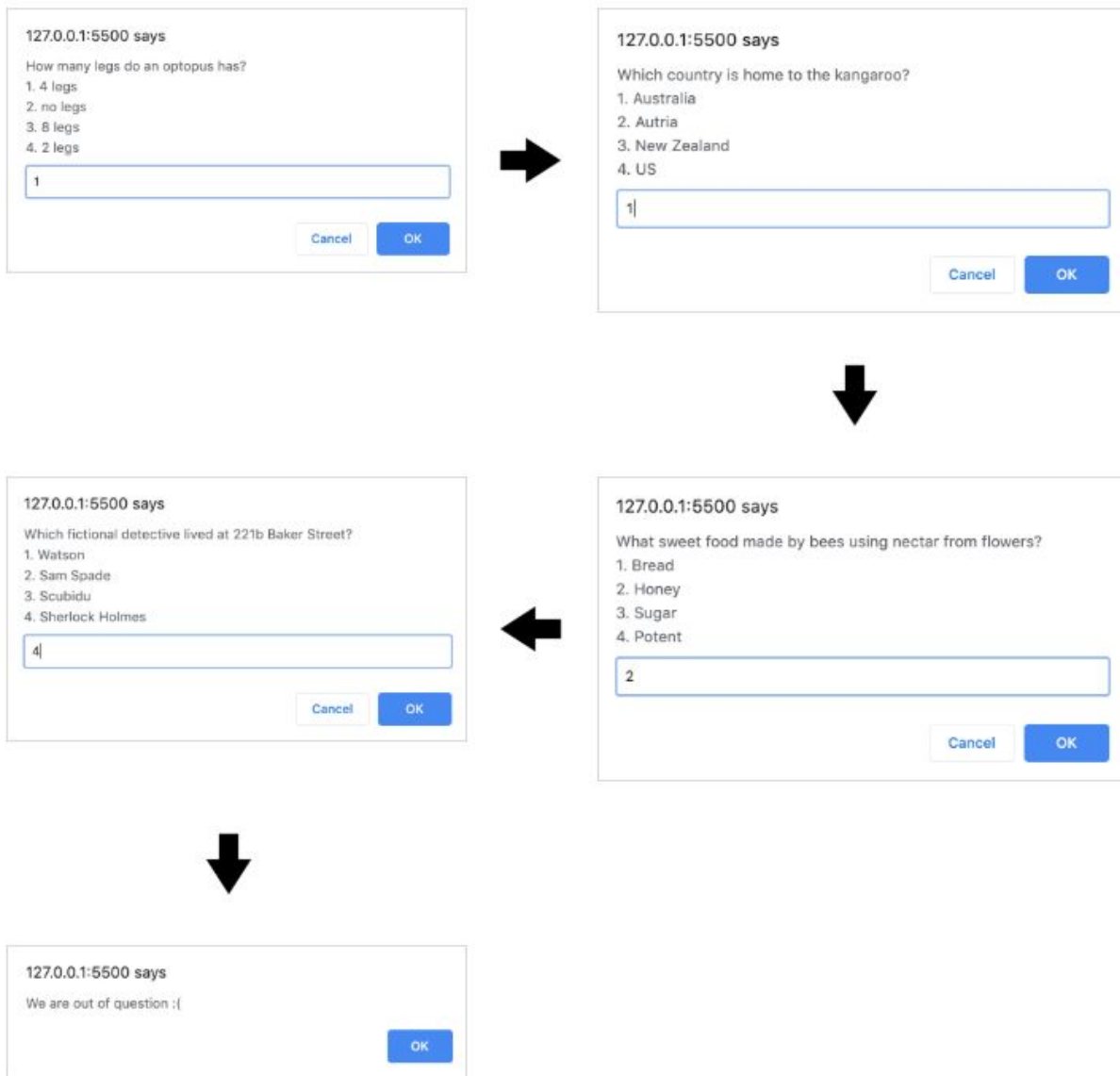
OK

Video 1.5 C4EJSLab - Basic - part 5

Let users answer then let them know whether they are correct

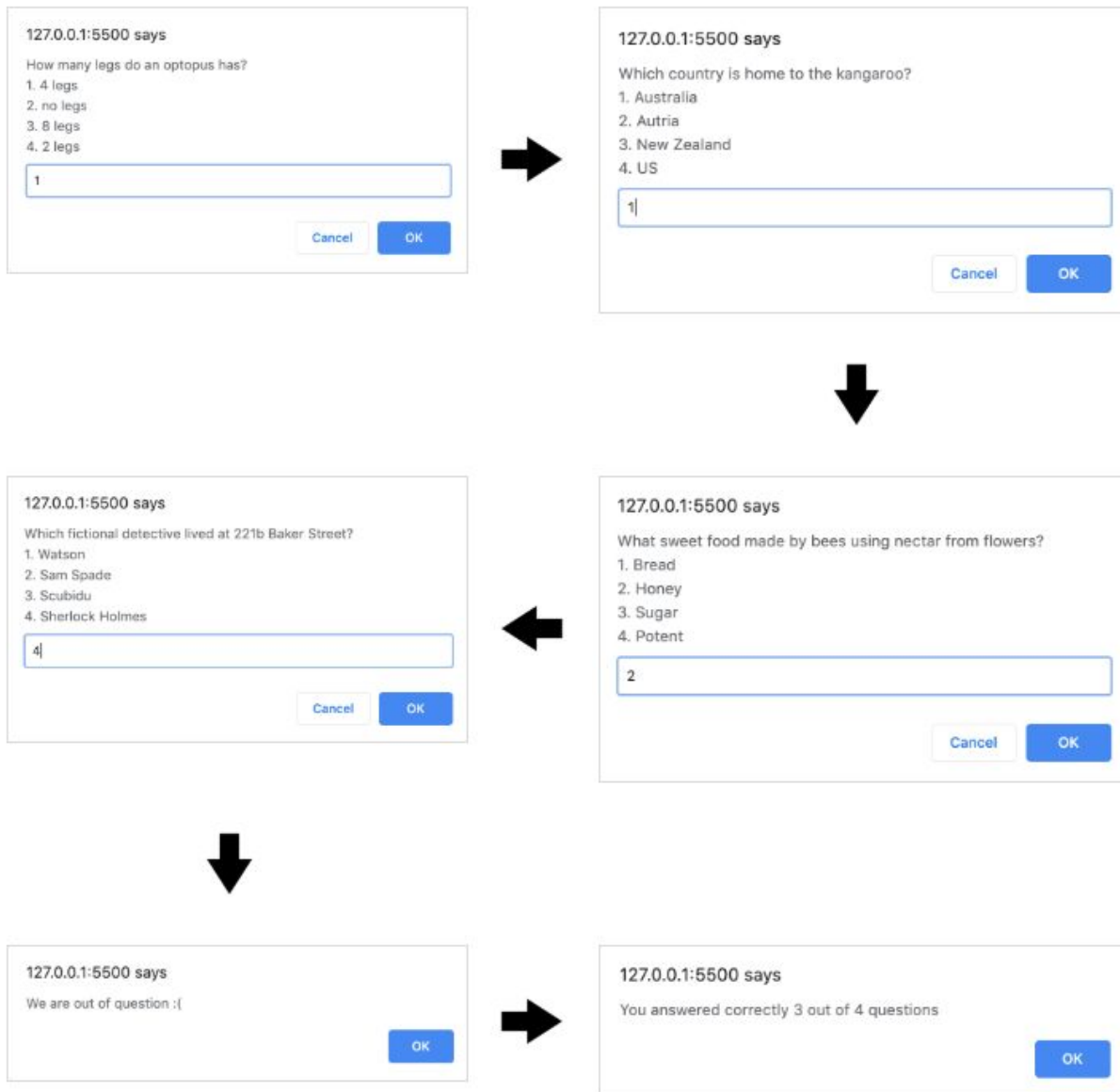
Video 1.6 C4EJSLab - Basic - part 6

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

Elements
top
to: 2
be: 1
that: 2
of: 3
elon: 1
this: 1
now: 2
back: 1
cool: 1
hey: 1
love: 1
life: 1
rain: 1
summer: 1
color: 1
hat: 1
late: 1
sorry: 1
my: 1
team: 1

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,  
  
  },  
]
```

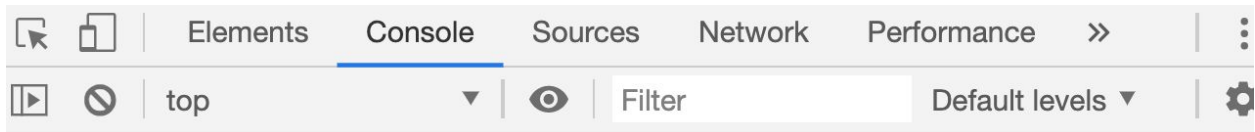
Video 3.3 C4EJSLab - Basic - part 3

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:
```

```
index.js:52
▼ {hp: Array(2), dell: Array(3), asus: Array(1)} ⓘ
  ▼ asus: Array(1)
    ► 0: {name: "Asus Zenbook", brand: "Asus", price: 20000, quantity: 4}
      length: 1
    ► __proto__: Array(0)
  ▼ dell: Array(3)
    ► 0: {name: "Dell XPS 9370", price: 30000, brand: "Dell", quantity: ...}
    ► 1: {name: "Dell Inspiron 3567", price: 9300, brand: "Dell", quanti...}
    ► 2: {name: "Dell Latitude E5450", price: 8600, brand: "Dell", quant...}
      length: 3
    ► __proto__: Array(0)
  ▼ hp: Array(2)
    ▼ 0:
      brand: "HP"
      name: "HP Envy 13aq"
      price: 21000
      quantity: 5
      ► __proto__: Object
    ► 1: {name: "HP Pavilion", brand: "HP", price: 14000, quantity: 7}
      length: 2
    ► __proto__: Array(0)
  ► __proto__: Object
```

Video 2.4 C4EJSLab - Basic - part 4

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

127.0.0.1:5500 says
Which brand?

Cancel
OK

127.0.0.1:5500 says
There are 3 generations of 'DELL' in inventory

OK

127.0.0.1:5500 says
Which brand?

Cancel
OK

127.0.0.1:5500 says
There are 2 generations of 'HP' in inventory

OK

Video 2.5 C4EJSLab - Basic - part 5

Add more details in the statistics

127.0.0.1:5500 says
Which brand?

Cancel
OK

127.0.0.1:5500 says
There are 3 generations of 'DELL' in inventory:

Dell XPS 9370
Dell Inspiron 3567
Dell Latitude E5450

OK

Video 2.6 C4EJSLab - Basic - part 6

Add more++ details in the statistics ($30000 + 9300 * 12 + 8600 * 2 \Rightarrow 158800$)

127.0.0.1:5500 says
Which brand?

Cancel
OK

127.0.0.1:5500 says
There are 3 generations of 'DELL' in inventory:

Dell XPS 9370
Dell Inspiron 3567
Dell Latitude E5450

With total value: 158800K

OK

Video 2.7 C4EJSLab - Basic - part 7

Better concurrency display Google 'JS toLocaleString'

127.0.0.1:5500 says

Which brand?



127.0.0.1:5500 says

There are 3 generations of 'DELL' in inventory:

Dell XPS 9370
Dell Inspiron 3567
Dell Latitude E5450

With total value: 158.800.000VND