**Time:** 1 - 5 hours

**Purpose:** This activity helps you get familiar with functions in JavaScript by tasking you with using them in the random data generator.

**Introduction:** Our code currently has a lot of repetition in it which needs to be cleaned up and encapsulated properly.

For this activity, you can either use your existing random data generator code you’ve created or see below.

**Task:** Update your current random data generator code-base to:

1. Use a function to remove any duplicate code
2. Replace the ‘prices’ arrray with a function that will create a random integer

|  |
| --- |
|  |
|  | const firstnames = ["Mark", "James", "Alison", "Mary"]; const lastnames = ["Smith", "Roberts", "Brown", "Williams"] |
|  | const prices = [100, 200, 300]; |
|  | const paidOptions = ["true", "false"]; |
|  | const additionalOptions = ["Cake", "Breakfast", "Tea", "Coffee", "Newspaper"]; |
|  |  |
|  | const pickRandomItem = (array) => { |
|  | let randomValue = Math.random() |
|  | let randomIndex = Math.floor(randomValue \* array.length); |
|  |  |
|  | return array[randomIndex]; |
|  | } |
|  |  |
|  | let firstname\_1 = pickRandomItem(firstnames); |
|  | let lastname\_1 = pickRandomItem(lastnames); |
|  | let totalprice\_1 = pickRandomItem(prices); |
|  | let depositPaid\_1 = pickRandomItem(paidOptions) |
|  | let additionalNeeds\_1 = pickRandomItem(additionalOptions); |
|  |  |
|  | console.log(firstname\_1); |
|  | console.log(lastname\_1); |
|  | console.log(totalprice\_1); |
|  | console.log(depositPaid\_1); |
|  | console.log(additionalNeeds\_1); |
|  |  |
|  | let firstname\_2 = pickRandomItem(firstnames); |
|  | let lastname\_2 = pickRandomItem(lastnames); |
|  | let totalprice\_2 = pickRandomItem(prices); |
|  | let depositPaid\_2 = pickRandomItem(paidOptions); |
|  | let additionalNeeds\_2 = pickRandomItem(additionalOptions); |
|  |  |
|  | console.log(firstname\_2); |
|  | console.log(lastname\_2); |
|  | console.log(totalprice\_2); |
|  | console.log(depositPaid\_2); |
|  | console.log(additionalNeeds\_2); |

Answer:

    const firstnames = ["Mark", "James", "Alison", "Mary"];

const lastnames = ["Smith", "Roberts", "Brown", "Williams"]

const prices = [100, 200, 300];

const paidOptions = ["true", "false"];

const additionalOptions = ["Cake", "Breakfast", "Tea", "Coffee", "Newspaper"];

const pickRandomItem = (array) => {

    let randomValue = Math.random()

    let randomIndex = Math.floor(randomValue \* array.length);

    return array[randomIndex];

}

const generateRandomName = () => {

    let firstname = pickRandomItem(firstnames);

    let lastname = pickRandomItem(lastnames);

    let totalPrice = pickRandomItem(prices);

    let depositPaid = pickRandomItem(paidOptions);

    let additionalNeeds = pickRandomItem(additionalOptions);

    console.log(firstname);

    console.log(lastname);

    console.log(totalPrice);

    console.log(depositPaid);

    console.log(additionalNeeds);

}

generateRandomName();

generateRandomName();