App Development 1

Write Arrays Based on Personal Data

Personal data refers to digital information about an individual including facts like their age, birthday, home address, or medical records. It can also include information collected from your cell phone or other device such as location history, internet browsing history, or login names and passwords. Personal data can be used to create a "picture" of who you are, even if it doesn't contain your name or other identifiable information.

Apps and websites can collect personal data and store it as arrays. This creates a kind of data portrait of an individual or group. Apps use your data to personalize your experience. For example, an app that gives directions might create a data portrait with an array of places you've visited before. A data portrait can also be used by advertisers to identify things you might by based on your preferences or the websites you've visited. Or, a data portrait might contain your answers to an online quiz.

Arrays can contain different kinds of data like words or numbers.

Here's an example array made of word**s**:

var myHabits = ["sleep a lot", "eat healthy", "gardening"]

Here's an example array that lists the hours of sleep a girl got in a week:

var mySleep1 = [7, 6, 4, 8, 8, 5, 7]

Do you think you are who your data says you are? What could someone learn about you by seeing your data?

Find out by following the steps below to write a set of arrays that represents you. Make sure to follow the correct syntax for writing arrays in JavaScript (found on the next page). Do not show anyone else your paper as you write. Then, shuffle and share your troop's arrays to see if you can guess which array belongs to which girl.

How to Make an Array Based on Personal Data:

1. Start by making a list of 5 - 8 kinds of personal data. For example, you could include physical traits, family members, habits, likes/dislikes, etc.
2. Write out the name of each category as the name of an array, using Javascript syntax.

    For Example:

    var myBody

    var myFamily

    var citiesLivedin

    var goodHabits

3. For each array, fill in elements from your personal data.

      For Example:

            var myBody = [hazel eyes, 5 ft tall, brown hair, strong legs]

            var myFamily = [sister, mother, uncle, aunt, cousin, cousin, cousin, cousin]

            var citiesLivedin = [Oakland, Memphis, Springfield, New York]

            var goodHabits = [sleep 8 hours per day, brush teeth daily, 30-minute walk per day,

                    help out with chores, finish homework before TV, turn phone off during class]

Syntax for Coding an Array:

- The list is made of elements. Each element is separated by a comma.
- At each end of an array are square brackets '[ ]'.
- Arrays should have one name, but they can be made of more than one word without spaces. The name of an array must not have spaces, cannot start with a number, or use special characters (*, %, &, etc).
- Many coders create names from two words that relate to the data the array contains: the first word is lowercase and the second word is capitalized.
- The "var" at the beginning stands for variable. Add 'var' before the name because Javascript syntax rules require you to call out your array as a variable

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Write 5-8 arrays based on your personal data below to create your personal data set.

Array 1:

Array 2:

Array 3:

Array 4:

Array 5:

Array 6:

Array 7

Array 8**:**