Homework 2

Due: 07/12/2022 11:59PM PST

```javascript
const itemsObject = [
 { quantity: 1, price: 200 },
 { quantity: 3, price: 350 },
 { quantity: 5, price: 400 },
];
```

- Given the array, implement a function for generating a new array which doubles the quantity and price in each object.
- Given the array, implement a function for generating a new array which contains item quantity > 2 and price > 300 only.
- Given the array, implement a function to calculate the total value of the items.

```javascript
const string =
 ' Perhaps The Easiest-to-understand   Case    For Reduce Is   To Return
The Sum Of  All The Elements In  An Array  ';
```

- Given the string, implement a function to remove all the non-alphabet characters and extra space in the string and convert the string to all lowercase.

- Implement a function to merge two arrays of objects on uuid, but first has uuid and name, second has uuid and role. With the not existing property, fill with null. Sort according to uuid after merge.

```javascript
const first = [
 { uuid: 2, name: "test" },
 { uuid: 5, name: "test5" },
 { uuid: 3, name: "test3" }
];

const second = [
 { uuid: 6, role: "pm" },
```

```
  { uuid: 4, role: "engineer" },
  { uuid: 1, role: "manager" },
  { uuid: 2, role: "associate" }
];
```

All the homeworks should be submitted via github. We will have a demo session(one by one) at 07/13/2022

The name of the js file should be : first name_last name_assignment2.js

Please send your github link to JStraining@chuwaamerica.com