Assignment Name - Fun with ES6

Problem Statement -

1) Convert the following two functions written in simple Javascript to ES6. Try and use as many features of ES6 as you can.

```javascript
var checkLogin = function (email, password, allUsers) {
  var isUserFound = false
  var passwordCorrect = false

  for (currentUser in allUsers) {

    console.log(currentUser)

    if (allUsers[currentUser]['email'] == email) {

      if (allUsers[currentUser]['password'] == password) {
        isUserFound = true
        passwordCorrect = true
        break
      } else {
        isUserFound = true
        passwordCorrect = false
        break
      }

    } else {
      isUserFound = false
    }
  } // end of for loop

  if (isUserFound == true && passwordCorrect == true) {
    alert('You are logged in')
  } else if (isUserFound == true && passwordCorrect == false) {
    alert('You have provided incorrect password')
  } else {
    alert('No user with this email found')
  }
} // end check login
```

```
function bubble_Sort(a)
{
    var swapp;
    var n = a.length-1;
    var x=a;
    do {
        swapp = false;
        for (var i=0; i < n; i++)
        {
            if (x[i] < x[i+1])
            {
                var temp = x[i];
                x[i] = x[i+1];
                x[i+1] = temp;
                swapp = true;
            }
        }
        n--;
    } while (swapp);
    return x;
}
```

2) Consider the following JSON dataset -
   https://s3-ap-southeast-1.amazonaws.com/edwisor-india-bucket/assignments/web03/JSS1l2/bigbangtheory.json

   This dataset contains information about a popular TV show in america called Big Bang Theory. Include this dataset in a JS file as a variable and then write the following functions (using ES6 features as much as possible) -
   ● Write a function that takes Season number and episode number as input and gives all the information about that particular episode as output.
   ● Write a function that can take any number of episode ids as input and returns all the information about those episodes.
   ● Write a function to search episode by its name.

Evaluation Basis

This project will be evaluated on following basis -

1) **Quality of JavaScript code -** Your application's Javascript code should be optimized to be readable with proper indentation and comments. It should be broken down into functions for better maintainability and it should not contain any logical bugs. It must use modern javascript syntax (ES6).

2) **Intuitive Thinking -** You have thinking intuitively and think of all the possible data points to be stored in the JSON. The better your data store is, the more marks you get.

3) **Originality of code -** Your code will be checked for plagiarism and if it's not original, it will be discarded with a negative skill score.

Deliverables from Candidate

1) Compressed Folder containing your code.

2) A TXT file containing the description of the logic followed by you in code as well as JSON file.

Create a folder containing both deliverables. Compressed all these into a ZIP/RAR format and then submit it on the assignment page

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Warning - Do not submit incomplete or wrong assignments. They will result in negative skill score. Also, you will not a get a second attempt at the assignment! So whatever score you get will be the final score