

NodeJS Interview Questions

Question 1

Write a function called `printObjectKeys(obj)` that prints an object's keys to the console. The function will be used the following way.

```
const obj = {  
  one: 1,  
  two: 2,  
  three: 3  
};  
  
printObjectKeys(obj); // one, two, three
```

Question 2

Write a function called `findChars(string, char)` that finds the index of all the matching characters and returns them in an array. This function should be case insensitive. The function will be used the following way.

```
const str = 'the quick brOwn fox jumped over the lazy dog';  
  
findChars(str, 'o'); // [12, 17, 27, 42]
```

Question 3

Write a function called `isArray(item)` that correctly detects a JavaScript array. The function will be used the following way.

```
const obj = {};  
const str = '';  
const num = 0;  
const array = [];  
  
isArray(obj); // false  
isArray(str); // false
```

```
isArray(num); // false
isArray(array); // true
```

Question 4

Write a JavaScript object constructor that instantiates `Dog` with the properties `name` and `breed`. It should also have a method `bark`. Below is an example of how `Dog` will be used.

```
const dog = new Dog('Fido', 'Bulldog');
console.log("The dog's name is " + dog.name);
console.log("The dog's breed is " + dog.breed);
dog.bark();
```

Question 5

NodeJS has a `setTimeout(callback, time)` function that takes a callback for its first parameter and time in milliseconds for its second parameter. Below is an example of how this function is used.

```
setTimeout(() => {
  console.log('waited 5 seconds');
}, 5000);
```

Convert `setTimeout(callback, time)` into the promise `setTimeoutAsync(time)` so that it can be used the following way.

```
setTimeoutAsync(5000).then(() => {
  console.log('waited 5 seconds');
});
```

Question 6

Write a NodeJS file module that converts a string to upperCase. This module will be used the following way.

```
const upperCase = require('./upper-case.js');
upperCase('Hello, world!'); // HELLO, WORLD!
```

Question 7

Write express logic that sends `Hello, world!` as the body when a GET request is made to the route `/hello`.

```
const express = require('express');

const port = 3000;
const app = express();

// your express route logic code goes here

app.listen(port, () => {
  console.log('listening on port ' + port);
});
```

Question 8

Write a function that demonstrates a closure