9/21/2019

Review questions for lesson 1: Review of JavaScript Functions and Arrays

- 1. What is a global variable?
- 2. Why should you avoid globals?
- 3. What is shadowing?
- 4. Why should you avoid shadowing?
- 5. What happens if a function is called and an argument is omitted?
- 6. What is a default value for a parameter? Give an example and explain how it is used.

7. What happens if a function does not have a return statement?

- 8. What happens if a function has a return without a value?
- 9. What happens if there the value to be returned is on a newline after the return keyword?
- 10. We said that it would be bad if a function getAge showed an alert or printed out age in addition to returning the age. Why is that bad? What design principles does it violate?
- 11. What is the command/query separation principle?
- 12. What is the 30 second rule for functions?

13. What does it mean to say functions are first-class objects?

14. What will appear in the console?

```
function sayHi() { alert("Hi");}
console.log(sayHi);
console.log(sayHi());
func1 = sayHi;
func2 = sayHi();
console.log(func1);
console.log(func1);
console.log(func2);
myArray = [func1, func1()];
console.log(myArray[0]);
console.log(myArray[1]);
console.log(myArray[1]);
console.log(func2());
```

- 15. What is the rule about where semicolons should appear in JavaScript code?
- 16. What is a 'callback'? Give an example
- 17. What is the difference of a function declaration versus expression in JavaScript?
- 18. What are the JavaScript data types?
- 19. Why should you always use === instead of ==?
- 20. Why are pop and push more efficient than shift and unshift?
- 21. Why should you favor for..of loops instead of for loops with indices?