

Lux Tech Academy.

JavaScript intermediate assessment test.

Instruction.

- Answers with less than 50 words will be considered incomplete.

- Accepted plagiarism level is 33%, If your plagiarism exceeds 33%, your results will be divided by 3.

- The assessment test should not take more than 24 hours.

- Submit all your answers in a PDF FILE to luxtinc@gmail.com, You can use any VSC to keep your code examples and attach the links in the PDF FILE.

All the best Lux Tech Academy.

- 1). What is JavaScript? is JavaScript ?
- 2). What are the data types supported by JavaScript?
- 3). Discuss 4 features of JavaScript?
- 4). Explain the main difference between JavaScript and TypeScript.
- 5). Create a JavaScript object called profile with:
 - your name.
 - your county.
 - your city.
 - phone number.
 - A method which calculates your age.
- 6). Create a JavaScript array called frameworks which contains top 3 JavaScript framework.
- 17). What will be the output of the code below? Using not less than 50 words explain your answer.

```
var names = ["Alex"," Micky",2,true]
console.log(names instanceof String)
console.log(names instanceof Number)
console.log(names instanceof Object)
console.log(names instanceof Array)
```

8). What will be the output of the following code?
Using not less than 50 words explain your answer.

```
function Add(){  
  console.log(answer)  
  var answer = 2  
};  
Add()
```

9). The following code has an impure function addAndPrint. Modify it into a pure function.

```
const addAndPrint = (a, b) => {  
  const sum = a+b;  
  console.log(`The sum is ${sum}`);  
  return sum;  
};  
const ans = addAndPrint(4,5)
```

10) Explain Exports and Imports as used in JavaScript.

11). Write a JavaScript program to redirect specified URL.

12). With an example explain WeakMap in ES6.

13) Implement a Stack Data Structure in JavaScript, discuss the rear and front in stack, and illustrate push and pop in stack.

- 14) Write a JavaScript program to simplify a given absolute path for a file in Unix-style.
- 15) Write a JavaScript program to find the if the 1st January is a Sunday between 2014 and 2050.
- 16). With aid of an example explain the difference between innerHTML and innerText.
- 17). What are the differences between null and Undefined?
- 18) How do you create and delete cookies in JavaScript, use code examples to explain.
- 19). What is named function in JavaScript and how do you define it?

20). Project:

BUILD A JAVASCRIPT QUIZ APP which has least 5 question of your choice, strictly use Vanilla JavaScript, CSS3 HTML5, VSC and deployed on Netlify.

Submit: a). A link to the live app.

b). Link to the git repository you used, Make sure you project has more than 1 branch and more than 5 commits.

This project should be submitted by 12:00 Midnight on 23th October 2020.