Answers for questions!

1. Explain the following expressions and the main differences between them.

How does the “new” keyword affect the function call?

a. var person = Person();

b. var person = new Person();

in the case A, we declare a variable (person),

and set the value that returns the function Person().

in the case B, we declare a variable (person), and the keyword “new” tells us that we create a new instance of an object.

Person() is a function-constructor and the variable that we created (person) is an object.

2. What are the pros and cons of using promises instead of callbacks?

Pros: when we using promises, we don’t block our App because the function becomes asynchronous.

We can use two methods: *then()* and *catch().*

Cons: if we call *then()* multiple times and some of these *then()* return an error, it is very hard to find which one of them returned an error.

Also, when the function is asynchronous and its result use in the synchronic function, it does not guarantee us that we will get the result before starts synchronic function, because the waiting time could be indefinite

3. What’s the difference between a variable that is: “null”, “undefined” or “undeclared”?

*null* means that our variable is declared and its value is intentionally set to “no value”;

*undefined* means that our variable is declared and doesn’t have any value;

*undeclared* means that our variable has not been declared

5. What tools would you use to find a performance bug in your code?

Console.log;

Chrome DevTools;

Debug JavaScript;

React DeveloperTools;

ReduxDevTools;

PerfectPixel;

6. Explain the same-origin policy with regards to JavaScript.

The “same-origin” restriction limits the access of windows and frames to each other and also AJAX requests to the server.

Web-browser permits script from a certain page to access data on another page, in case if both pages have the same domain or subdomain.

That is for saving data and their protection against theft.

7. Specify a GitHub link for at least one project that will be able to review a code that was written by you.

<https://github.com/VovaMelnyk/scrumi-temp/tree/master/src/components/pages/Calendar>

<https://github.com/maryshkam/daily_control_weight>

<https://github.com/maryshkam/budget>