

Variables and Data types

1.

- Declare two variables: admin and name.
- Assign the value "John" to name.
- Copy the value from name to admin.
- Show the value of admin using alert (must output "John")

2. Examine the following code:

```
const birthday = '18.04.1982';  
const age = someCode(birthday);
```

Here we have a constant birthday date and the age is calculated from birthday with the help of some code (it is not provided for shortness, and because details don't matter here).

Would it be right to use upper case for birthday? For age? Or even for both?

```
const BIRTHDAY = '18.04.1982'; // make uppercase?  
const AGE = someCode(BIRTHDAY); // make uppercase?
```

3. What is the output of the script?

```
let name = "Ilya";  
alert( `hello ${1}` ); // ?  
alert( `hello ${"name"}` ); // ?  
alert( `hello ${name}` ); // ?
```

4. Write a function min(a, b) which returns the least of two numbers a and b.

For instance:

```
min(2, 5) == 2  
min(3, -1) == -1  
min(1, 1) == 1
```

```
Function min (a,b){  
  If (a>b)  
  Return b;  
  Else  
  Return a;  
}
```

5. Write a function `pow(x, n)` that returns `x` in power `n`.
Or, in other words, multiplies `x` by itself `n` times and returns the result.

```
pow(3, 2) = 3 * 3 = 9
```

```
pow(3, 3) = 3 * 3 * 3 = 27
```

```
pow(1, 100) = 1 * 1 * ... * 1 = 1
```

6. The following function returns `true` if the parameter `age` is greater than 18.

Otherwise it asks for a confirmation and returns its result:

```
function checkAge(age) {  
  if (age > 18) {  
    return true;  
  } else {  
    // ...  
    return confirm('Did parents allow you?');  
  }  
}
```

Will the function work differently if `else` is removed?

```
function checkAge(age) {  
  if (age > 18) {  
    return true;  
  }  
  // ...  
  return confirm('Did parents allow you?');  
}
```

7. The following function returns `true` if the parameter `age` is greater than 18. Otherwise it asks for a confirmation and returns its result.

```
function checkAge(age) {  
  if (age > 18) {  
    return true;  
  } else {  
    return confirm('Do you have your parents permission to access this  
page?');  
  }  
}
```

Rewrite it, to perform the same, but without `if`, in a single line.

Make two variants of `checkAge`:

1. Using a question mark operator `?`
2. Using OR `||`