

IMY 220

Practical 4:

ES6

Due: Friday 21 September @ 09:20

The submission instructions are available on ClickUP. Any deviation from these instructions will cause a 10% deduction from your mark.

Instructions

- For this practical, you will need to update the JavaScript from last week to use ES6 as well as add another function.
- Download *index.html* and *script.js* from ClickUP. These files contain the functionality for last week's practical. You are not allowed to edit *index.html*, except for putting your name and surname in the "author" meta tag. All your code for this practical must be written inside *script.js*.

Section 1: ES6

Rewrite all the code inside *script.js* to use recommended ES6 syntax. This includes:

- Using an ES6 class to define *MultipleChecker*
- Using arrow functions
- Using appropriate variable declarations, i.e. changing it from the *var* keyword

Furthermore, you must redefine how the functionality is printed on the page. Each result must be printed in a descriptive string which must look as follows:

Check if a Multiple

Number to check

Multiplication table

Submit 25 is a multiple of 5

Multiple List

Length of list

Multiplication table

Submit First 8 multiples of 6: 6,12,18,24,30,36,42,48

Check Pangram

Check if input is a pangram

Submit the quick brown fox jumps over the lazy dog is a pangram

Note that you must print the results to the page using ES6 template strings.

Section 2: Different vowels checker

Using the array of vowels provided inside `script.js`, write a function called *checkDifferentVowels* that checks whether a word contains more than one kind of vowel, which may appear more than once in the word. For example, the word “ensemble” only contains one vowel (“e”) while the word “different” contains two vowels (“i” and “e”). Therefore, the first word would return false, and the second would return true.

HINT: the `Array.includes()` function returns true if an array contains one/more of an element.

You must use the `Array.reduce` function to check for this. However, if you are unable to complete this functionality using `Array.reduce`, you should use another method, as this would earn you more marks than using `Array.reduce` without any working functionality.

This section must also be done with ES6 syntax where appropriate and must also be printed to the page in a descriptive string, for example:

Check for different vowels

Check if the input contains different vowels

Submit

The string tapas does not contain more than one vowel

Check for different vowels

Check if the input contains different vowels

Submit

The string cake contains more than one vowel

Additional Information

- Refer to the slides as well as MDN website (<https://developer.mozilla.org/en-US/>) for help

Submit only the following file(s) according to the submission instructions.

- `index.html`
- `script.js`