document.getElementById ('insert the ID you want to target');

The **getElementById** () method returns the element that has the **ID** specified inside the parentheses.

This method is one of the most common methods in the **HTML DOM** and is used frequently when you want to manipulate or get values from an element in your document.

Download the *selectors.zip* file from Moodle – open in Visual Code

Open index.html and script.js – create the function below in script.js

1

Change the output text:

getElementById() retrieves the element with an **ID** of "output" from index.html – then sets its innerHTML property to contain the <h2> tags with text.

NOTE: The <h2> html tags and text are surrounded in double quotes -you can also use single quotes – when setting the **innerHTML** property it completely overwrites everything inside the parent tag(**'output'**)

View in **Live Server** and click the first button

Display New Text

Updated text now displays and is inside the new **<h2>** tag



2

Change the text colour:

This time the element returned is stored in a variable named *txtOutput* making it easy to access the *style* object followed by the *colour* property

Test in *Live Server* - Text now changed to Royal Blue – experiment with HEX values and change to other colours

Hello I'm the New Text

Setting more than one value with the cssText property

Same process again except this time **cssText** property is being set

IMPORTANT! – Below the css properties/values are surrounded by `back ticks`(*left of the number one key on the keyboard*) not quotation marks – This is a new feature in JavaScript – one of the benefits being you can wrap the text over multiple lines, and it will still work – you cannot do this using quotes

```
/* returns the element withe ID of 'output' stores in varaible
then sets the cssText property multiple values*/
function changeMultiple() {

let multOutput = document.getElementById("output");
multOutput.style.cssText = `font-size:50px;
color:orange;
border:6px dashed green;padding:2rem;`;
}
```

Preview in *Live Server*, click **Change Multiple Properties** button – to view the orange text with the **6px** dashed border– experiment with other properties

```
New text will be inserted here
```

Setting multiple elements on the page using querySelectorAll()

querySelectorAll() returns the elements in a node list(similar to an array) matching the supplied css selector

- Below all tags are returned in a node list
- A for loop is used to loop through the elements in the node list, changing each elements colour to #4CC9E3(light blue)

```
function selectAll() {
    let list = document.querySelectorAll("p");

for (let i = 0; i < list.length; i++) {
    list[i].style.color = "#4CC9E3";
}

4
}</pre>
```

Preview in **Live Server** – click the **'Select ALL P Tags'** button

Setting an element on the page using querySelector()

querySelector() returns only the **first** element that matches the supplied CSS selector(*will stop looking after it finds the first matched selector*)

Below querySelector() returns the first matched tag cssText property applies the styling - remember those back ticks!

```
function changeFirst() {
let currentElement = document.querySelector("p");
currentElement.style.cssText = `font-size:3rem;
color:#5a97dc;`;
}
```

Preview in **Live Server** – click the **'Change First'** button

Paragraph one is now different from the others

```
This is paragraph 1

This is paragraph 2
```

Change elements in paragraph list by class name

- Below, returns a node list containing the elements with the supplied class name(.changeCurrent class is found on tags 2 & 4 on index.html)
- Loops over the list and updates the css values using cssText property

Preview in Live Server – click the 'Change by Class button

```
Paragraphs 2 & 4 are now changed

This is paragraph 2

This is paragraph 3

This is paragraph 4
```

Reset properties and values back to initial state

- Below uses a combination of the 2 methods getElementById() returns the output panel back to original state
- querySelectorAll() retrieves the tags and returns them back to their original state

```
/* Resets ALL Properties */
function resetAll() {

let resetOutput = document.getElementById("output");
    resetOutput.innerHTML = "New text will be inserted here";
    resetOutput.style.cssText = `font-size:2rem;

// resetOutput.style.cssText = `font-size:2rem;

// color:#5a97dc;
// border:0px;`;

// let list = document.querySelectorAll("p");
// for (let i = 0; i < list.length; i++) {

| list[i].style.cssText = `font-size:2rem;
| color:#000;
| border:0px;`;
| }
// but the function resetAll("p");
// color:#000;
// border:0px;`;
// but the function resetAll("p");
// color:#000;
// border:0px;`;
// but the function resetAll("p");
// color:#000;
// border:0px;`;
// but the function resetAll("p");
// color:#000;
// border:0px;`;
// color:#000;
```

Preview in Live Server – click the 'Reset All button



TASKS:

- 1. Add more buttons to the **index.html** page *copy & paste*
- 2. One of the buttons should change the *background colour* of the section with the 'dataPanel' ID
- 3. Update the select All tags function instead of just the colour update *borders, background colours* and any other properties you can think of