## Programming for the web – 2022 IT A2 9626

1. Nov/2022/Paper 32/No.9

A programmer is writing some JavaScript code to display this text on a web page:

This is "Cambridge International IT 9626 Paper 3"

The programmer uses strings in the code.

(a)	Describe the purpose of strings in JavaScript.

(b) The programmer's first attempt at the HTML and JavaScript code is shown in Fig. 9.1. Line numbers are shown only for your use when referring to the code.

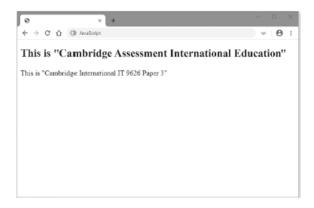
......[1]

```
1
     <!DOCTYPE html>
2
     <html>
3
     <body>
4
     <h2>This is "Cambridge Assessment International Education"</h2>
5
6
7
     8
9
     <script>
10
     var x = "This is "Cambridge International IT 9626 Paper 3"";
     document.getElementById("string").innerHTML = x;
11
12
     </script>
13
14
     </body>
15
     </html>
```

Fig. 9.1

When run in a web browser the HTML code outputs the heading in line 5 on the page. The browser executes the JavaScript code shown in lines 9 to 12.

The expected output of the code on the web page is shown in Fig. 9.2 but the actual output is shown in Fig. 9.3.



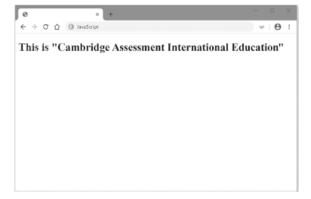
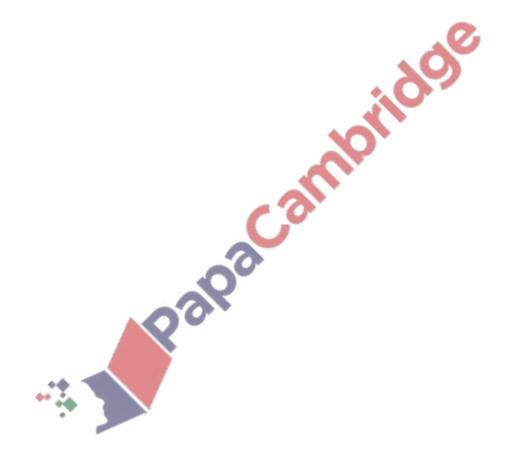


Fig. 9.2 Fig. 9.3



Explain why the error in line 10 prevents the JavaScript code from outputting:		
This	is "Cambridge International IT 9626 Paper 3"	
	[4	
	JavaScript programmers often wish to control when sections of their code are executed.  Compare the use of setTimeout() and setInterval() for delaying the execution of JavaScript code.	
	-200	
	***	
	7.1	

2.	June/2022/Paper_31/No.8  JavaScript code can use comparison operators.		
	Exp	plain how each of the following comparison operators works in JavaScript when comparing the obser 1 with the text "1".	
	(a)	the == operator	
		[2]	
	(b)	the !== operator	

The ${\tt confirm}$ () method is used in JavaScript to create and provide dialog boxes for users to interact with web pages.	
(a)	Describe the purpose of $two$ elements of the dialog box that appears when ${\tt confirm}()$ is used.
	[2]
(b)	Explain why the use of confirm() may cause problems on web pages.
	[3]
(c)	Explain how the result of the user interaction from <code>confirm()</code> is reported back to the JavaScript code for use in the remaining code.
	[3]

**3.** June/2022/Paper\_32/No.4

4.		/2022/Paper_33/No.8 aScript code can use comparison operators.
		plain how each of the following comparison operators works in JavaScript when comparing the onber 1 with the text "1".
	(a)	the == operator
		[2]

The	The prompt () method is used in JavaScript to provide a popup dialog box for users to interact with web pages.	
(a)	Explain how the result of the user interaction from $\mathtt{prompt}()$ is used by a programmer to collect the input from a user.	
	[4]	
(b)	Explain <b>two</b> limitations of using the prompt () method of user interaction.	
	1	
	2	
	[2]	

**5.** March/2022/Paper\_32/No.7