BACHELOR OF SCIENCE IN COMPUTING AND DIGITAL MEDIA
YEAR 2

APPLIED DIGITAL MEDIA 1

ASSESSMENT 1 – JAVASCRIPT – GROUP A

ADDITIONAL INFORMATION PERTAINING TO THIS ASSESSMENT:

- The maximum duration of the assessment is 1 and a half hours.
- You can use the Internet to access Moodle and other sources, but not for messaging/communications purposes.
- Network is monitored during assessment.
- No talking during the assessment.
- Phones must be put on silent and away for duration of the assessment.
- Once you have completed and submitted the assessment you are required to leave.

EXAMINATION FORMAT

5 Questions in Total
Attempt All Questions
All questions carry equal marks

TIME ALLOWED: 1.5 HOURS

Question 1

Use JavaScript to output the following text using an alert (see Figure 1):

"Today is Wednesday November 8"

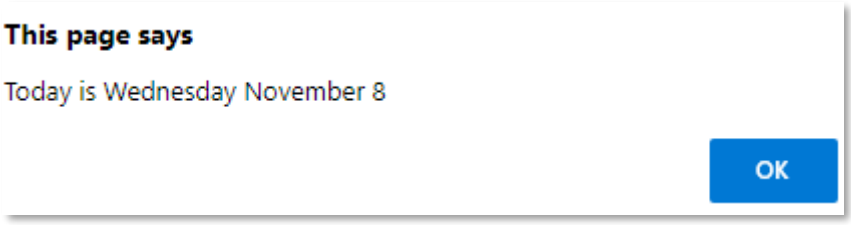

Figure 1 – Required Text output using an alert.

Include comments in your HTML and JavaScript.

Complete all the tasks outlined in two files – Question1.html and Question1.js. Ensure that only JavaScript is placed in the Question1.js file and have Question1.html call the JavaScript file from within the HTML file.

Question 2

Use JavaScript to calculate the result of multiplying the number 2.1 by the number 4.8. Each of these values should be assigned to a variable (i.e., you will need variables for 2.1, 4.8, and the result). Use the variable names concatenated with strings for your output. Output should be written to the web page (see Figure 2).

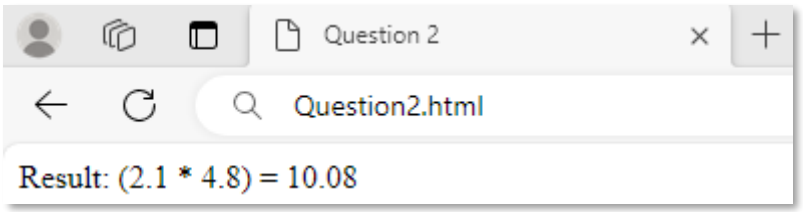

Figure 2 – Output on web page showing arithmetic and result.

Include comments in your HTML and JavaScript.

Complete all the tasks outlined in two files – Question2.html and Question2.js. Ensure that only JavaScript is placed in the Question2.js file and have Question2.html call the JavaScript file from within the HTML file.

Question 3

Create a JavaScript program which prompts the user to enter three numbers. Create three variables to store these three numbers: first, second, and third. Output using an alert the result of performing the following arithmetic:

first + (second / third).

Refer to figure 3 below for example output.

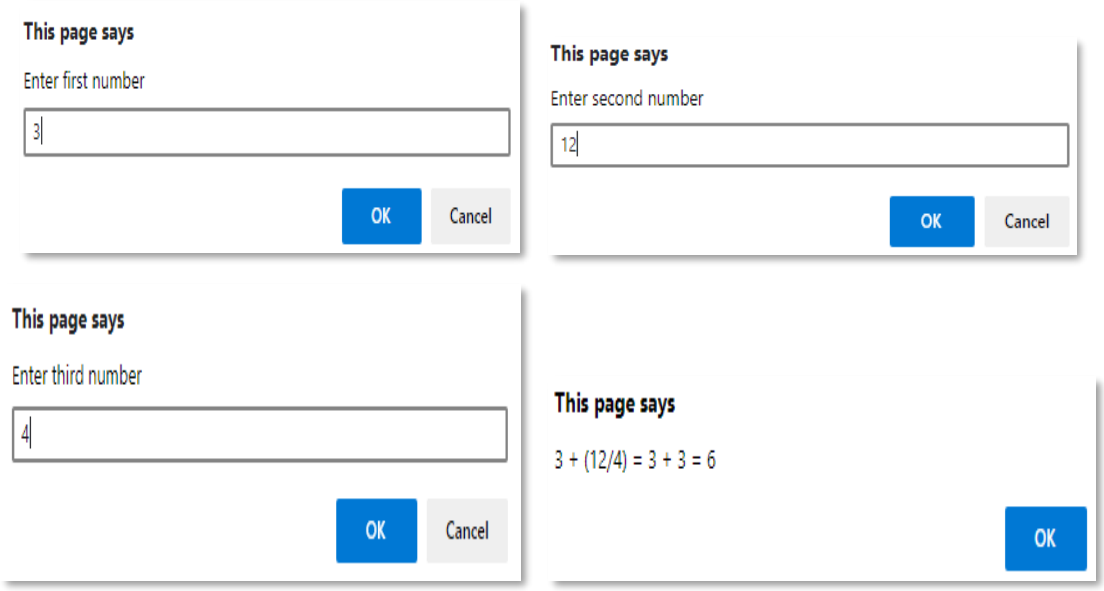

Figure 3 – Arithmetic and result output using an alert.

Include comments in your HTML and JavaScript.

Complete all the tasks outlined in two files – Question3.html and Question3.js. Ensure that only JavaScript is placed in the Question3.js file and have Question3.html call the JavaScript file from within the HTML file.

Question 4

An item costs 20 euro. Write a JavaScript program which prompts a user to enter a quantity value for the item and output the total cost based on the quantity value. Please note if the quantity value entered by the user is 5 or greater, then apply a 10% discount to the total cost. Output results to the webpage (see figure 4).

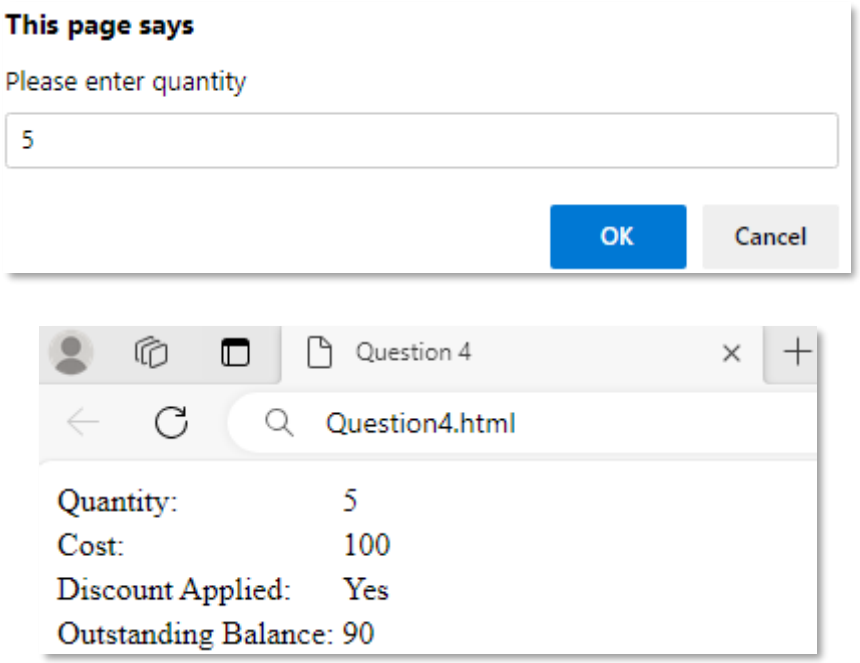

Figure 4 – Prompt and output to web page.

Include comments in your HTML and JavaScript.

Complete all the tasks outlined in two files – Question4.html and Question4.js. Ensure that only JavaScript is placed in the Question4.js file and have Question4.html call the JavaScript file from within the HTML file.

Question 5

A fine of 80 euro exists for some violation. If the fine is paid within 10 days of the fine being issued, a 10% discount is applied to the fine. If the fine is paid after 20 days of the fine being issued, then a penalty of 10 euro per day is added to the fine. A tax on the fine must also be paid. The tax rate applied is 23%. Write JavaScript code to prompt a user to enter the number of days since the fine was issued, and output a breakdown of calculations to the web page, giving fine total and overall total based on any discounts or penalties, and tax.

Include comments in your HTML and JavaScript.

Complete all the tasks outlined in two files – Question5.html and Question5.js. Ensure that only JavaScript is placed in the Question5.js file and have Question5.html call the JavaScript file from within the HTML file.

Add all files from the assessment to a zip file and upload it using the link available in Assessment 1 section on the Module Moodle page.