Universiti Malaysia PAHANG	FACULTY OF COMPUTING	MARKS
	COURSE: BCS2243 WEB ENGINEERING	
	COMPONENT : JavaScript	
	ASSESSMENT: Lab assignment 3	
	DURATION : 2 hours	

Course Learning Outcomes	Weight Score
CO1 Design appropriate solution using fundamental web engineering concepts.	2%
CO2 Construct a web-based application using web-engineering methodology.	3%
CO3 Demonstrate communication effectively in written and oral form through group discussion, meeting and presentation session.	Not assessed

General Instructions:

1. This assessment is an individual task.
2. You can refer and cite to any notes, references or sample codes from any sources.
3. ALL submission must in **soft-copy** version as followed: -
    a. Original source code with:-
        i. ALL html files (.html).
        ii. ALL images file in a separated folder
        iii. ALL external files (.css, .js)

Question 1

Identify the given redeclaring variables in Figure 1 are allowed or not allow.

```
1  var x = 5;
2  var x = 7;
3
4  var num = 5;
5  let num = 7;
6
7  {
8  let num = 5;
9  let num = 7;
10 }
11
12 {
13 let num = 2;
14 var num = 3;
15 }
```

Figure 1

Question 2

Visit the given URL and complete the exercises on:

i. JS Variables
ii. JS Operators
iii. JS Data Types
iv. JS Functions
v. JS Objects
vi. JS Events
vii. JS Comparisons
viii. JS Conditions
ix. JS Switch
x. JS For Loops
xi. JS While Loops
xii. JS Break Loops

The URL:
https://www.w3schools.com/js/exercise_js.asp?filename=exercise_js_variables1

Question 3

Write a program to display user name and email address in three display ways; HTML element, HTML output and alert box.

Question 4

Write a program to calculate the summation of three numbers. Display the three integers and the summation in a page.

Question 5

Rewrite the program for Question 3 and 4 by prompting the user to insert the values.

Question 6

Write a JavaScript program in conditional statement (else if and switch) to prompt student for a program code; and print:

i. Software Engineering; if the value is BCS
ii. Computer Systems and Networking; if the value is BCN
iii. Graphic and Multimedia; if the value is BCG
iv. Diploma; if the value is DCS
v. "Not FK undergraduate student" if the value does not fall in any of the four categories above

Question 7

Initialize a variable named ***count*** with value = 0. Prompt user for an integer value, as long as the value is bigger than ***count***, print out the statement "I'm looping!". ***Count*** value should be increased after each loop statement.