SCHOOL OF COMPUTING

ST0523 Fundamentals of Programming

Practical 1: Introduction to JavaScript Programing

What you will learn / do in this lab

- Write the code to print out a specific output using escape characters
- Identify correctly the validity of a variable name
- Identify the most suitable data type of a given category
- Trace a program to determine what is the final output of the code

1) Write JS code to display the following output using a **single** console.log statement:

	Output should be as shown below	Code
(a)	"The quick brown fox jumps over the lazy dog."	
(b)	/···\ \/ \/	
(c)	I've tried so hard and got so far and in the end it doesn't even matter.	

2) Identify and state reason(s) if the following variable names is valid/invalid.

	Variable Name	Valid / Invalid	Reason(s)
(a)	n@m3		
(b)	while		
(c)	1234ні5		
(d)	\$II\$		
(e)	POck3t		
(f)	Mr. Molly		
(g)	switch		
(h)	_MannerMakesMan		

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3) Determine the most suitable data type for the following categories:

	Category	Data Types
(a)	Mailing Address	
(b)	Body Mass Index (BMI)	
(c)	Credit Card Number (16 digits)	
(d)	Is a year a leap year	
(e)	Amount of Water in Water Bottle	
(f)	Does password contains at least 8 characters	
(g)	Movie Title & Director	
(h)	Year Published of a Book	

4) Trace the following code to determine the final value printed. You are to treat each part <u>independently.</u>

	Program	Output
(a)	var x = 4; $x = 5;$ $console.log(x);$	
(b)	<pre>var x, y; x = 5; y = x; console.log(y);</pre>	
(c)	<pre>var x, y; y = x; console.log(y);</pre>	
(d)	<pre>var x, y, z; z = 2; y = z; x = y; console.log('z');</pre>	

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5) Using Visual Studio, write a program using only 1 **console.log** to output the following program below:

```
Module Code\Name: ST0523\"Fundamentals of Programming"

CA 1 :40%

CA 2 :20%

EXAM :40%

Total---->:100%
```

-- End --