Name Student ID.



## **School of Engineering**

## King Mongkut's Institute of Technology Ladkrabang Midterm Examination, 1st Semester, Academic Year 2021 Subject: 13016344 Web Programming Year: 3

Examination Date: Tuesday 5<sup>th</sup> October 2021 Time: 16.30 – 19.00 Hrs.

Instruction: This is an **opened book**. There are 3 questions please answer all of them.

- 1. (7 points) Write HTML5 codes for both files "exchange.htm" and its external style sheet "exchange.css". When "exchange.htm" is rendered by a web browser, the browser will show a screen of Figure 1; in the file "exchange.css", please define
  - -a tag-level class namely "exchangeheader" which will be applied to only the header of a table. This style will set a text message in a table header row to be white with the purple (#800080) background.
  - a tag-level class namely "evenrow" which will be applied to only each even row of a table. This style will set the entire table row to be a light purple (#D8BFD8) background.
  - -a generic class namely "tablefont" which will be applied to any tag at all of the table. This style will set any text in the table to be "Candara" font.
  - a pseudo-class namely "hover" which is applied to the text of the first column of each currency row. This style will set the text to be in red (#FF0000).

The flag icon of each row comes from a picture file, for example, us.jpg, uk.jpg, hk.jpg etc.

COUNTRY	CURRENCY	BANK NOTES		BUYING		SELLING
		BUYING	SELLING	SIGHT BILL	T/T	DRAFT & T/T
US DOLLAR \$1 - 2	USD 2	32.58	34.04			
US DOLLAR \$5 - 20	USD 1	32.98	34.04			
US DOLLAR \$50 - 100	USD	33.38	34.04	33.48	33.58	33.99
WITTED KINGDOM	GBP	44.78750	46.73750	45.23750	45.33750	46.23750
★ HONGKONG	HKD	4.18840	4.43840	-	-	-

Figure 1.

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2. (8 points) Write HTML5 and JavaScript codes for an HTML form, shown at top of Figure 2, which will take inputs from the user and calculate a BMI (Body Mass Index) for the user. The BMI is calculated from Weight in kilogram divided by the square of Height in meters. Once the BMI of that person is calculated, the BMI table will pop-up below the form and display the BMI result of that person together with its meaning and also high-light the row of his/her category in the table with the yellow color (#FFFF00).

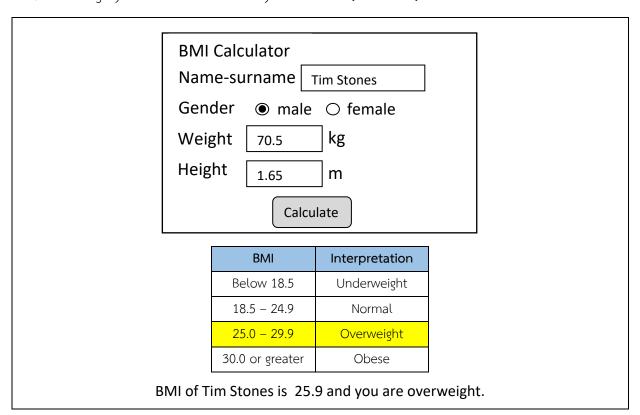


Figure 2.

3. (10 points) Write HTML5 and JavaScript codes when being run on a web browser, its screen displays a table as shown in **Figure 3**, where each **arrow picture** will react with a mouse-click event, that is, when a user clicks a mouse on the right arrow the number in the middle will get increased by one at a time until it reaches 9 and not more than that, but if the user clicks a mouse on the left arrow the number will get decreased by one at a time until it reaches 1 and not less than that. Let's assume that the appearance of the number 1, 2, 3, ..., 9 comes from a picture file 1.png, 2.png, ..., 9.png respectively; and the number 1 will always be displayed on the browser when the codes are initially running.



Figure 3.

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