



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 5th 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 DRAFT & T/T
		BUYING	SELLING	SIGHT BILL	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
 UNITED KINGDOM	GBP	44.78750	46.73750	45.23750	45.33750	46.23750
 HONGKONG	HKD	4.18840	4.43840	-	-	-

Figure 1.

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**).

BMI Calculator

Name-surname

Gender ☒ male ☐ female

Weight kg

Height m

BMI	Interpretation
Below 18.5	Underweight
18.5 – 24.9	Normal
25.0 – 29.9	Overweight
30.0 or greater	Obese

BMI of Tim Stones is 25.9 and you are overweight.

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.