

(420-WE6-AB) Foundation of Web development

FALL 2022

FINAL TEST # [Worth 30%]

Due: 06th October 2022 at 6.30PM on Lea

Question 1: HALLOWEEN CANDY

Halloween Candy: The company is preparing itself for Halloween. They intend to sell a box of chocolates for 11.99\$. The company thought of improving its sales by providing discounts on mass sales as follows:

Number of Chocolate Boxes	Given Discount
5-9	10%
10-29	25%
30-49	40%
50 or more	50%

Design a HTML web application with JS function that collects the number of boxes purchased. The program should then display the amount of the discount (if any) and the total amount of the purchase after the discount, after pressing the button calculate. The web application interface should look like the image below.

Chocolate boxes:

Output:

Total cost without discount: \$263.78
 Discount of 25%: \$65.945
 Total cost: \$197.835

(22*11.99)
 (263.78*0.25)
 (263.78-65.945)

Question 2: HOTEL REPORT ANALYSER

The Marriot Hotel team has asked you to help them design a web application based on JS function to provide statistics on hotel rooms. The user should provide the number of vacant rooms, occupied rooms and reserved rooms in the hotel. The program must display the following statistics after pressing on button as shown in the picture below:

- The total number of rooms in the hotel.
- The number and the percentage (%) of vacant rooms.
- The number and the percentage (%) of occupied rooms.
- The number and the percentage (%) of reserved rooms.

Number of vacant rooms:	<input type="text" value="15"/>
Number of occupied rooms:	<input type="text" value="20"/>
Number of reserved rooms:	<input type="text" value="5"/>
<input type="button" value="CALCULATE"/>	

Total number of rooms:	40	(15+20+5)
The percentage of vacant rooms:	37.5%	(15/40=0.375)
The percentage of occupied rooms:	50%	(20/40=0.5)
The percentage of reserved rooms:	12.5%	(5/40=12.5)

Question 3: MULTIPLE OF 3 BETWEEN A RANGE

Write a web application based on JS function that takes 2 numbers and display all the multiple of 3 between those 2 numbers as presented in the picture below. The second number must be bigger than the first one.

First number:	<input type="text" value="2"/>
Second number:	<input type="text" value="20"/>
<input type="button" value="CALCULATE"/>	

Output: 3, 6, 9, 12, 15, 18

IMPORTANT: Submission guidelines

1. The project name should be called after your surname followed by your student ID.
2. Submit a single zip of your html project code (containing the code for the 3 questions) as well as 1 screenshot corresponding to the running test scenarios presented in the paper.
3. **All screenshots must show a background with your project name in your editor. The browser can be resized in the screenshot to make room for a background.**
4. Only the last submission will be evaluated.
5. **Failure to follow these guidelines will result in losing points**
6. **Plagiarism and cheating will be strongly penalized as per college policies.**
7. Do not submit any work via MIO or TEAMS.

