

# Web Design and Development (PROG1800) Midterm Exam “A”

Remember to check your uploaded files  
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By uploading a file to eConestoga, you agree to these  
conditions. Otherwise, you will receive a grade of Zero.

## Question 1:

~~Adam's Phone Store sells phones and accessories. Adam pays commission (Total Commission) to his sales agents as follows:~~

- ~~10% of total sale, if the total sale is less than \$10,000~~
- ~~15% of total sale, if the total sale is between \$10,000 and \$20,000~~
- ~~20% of total sale, if the total sale is greater than \$20,000~~

~~Create an application for Adam so that his agents can calculate their commission by filling in the input values as shown on the input screen (Figure 1).~~

~~The application should include a Title and/or Logo, CSS and formatting, and at bare minimum, match the Figure's below.~~

~~All of the star (\*) marked fields are **mandatory**. Agent Number should use **regular expression** for verification as it should be in the format XX999999 (2 alphabets and 6 numbers).~~

~~You may use the following REGEX or create your own:~~

~~[A-Z]{2}[0-9]{6}~~

~~The following fields should accept a **numeric value only**:~~

- ~~• Total Cost of Phones Sold~~
- ~~• Total Cost of Accessories Sold~~
- ~~• Commission Received Till Date.~~

~~Once the form is submitted, generate an output with the data as shown on the output screen (Figure 2).~~

~~Total Sale is calculated as follows:~~

~~Total Sale = Total Cost of Phones Sold + Total Cost of Accessories Sold~~

~~Sometimes agents are paid commission in advance (*Commission Received*) which should be deducted (Subtracted) from the *Total Commission* to show the *Commission Pending*.~~

~~Your files should be in their own Directory named “Question1”. Common file names: Index.html, script.js, main.css and a directory if images are used.~~

**All the validations should be Javascript validations only. Your form MUST use onsubmit, NOT onclick.**

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### INPUT

<u>COMMISSION CALCULATOR</u>	
AGENT NAME* :	<input type="text"/>
AGENT NUMBER* :	<input type="text" value="XX999999"/>
AGENT CITY* :	<input type="text"/>
TOTAL COST OF PHONES SOLD* :	\$ <input type="text"/>
TOTAL COST OF ACCESSORIES SOLD :	\$ <input type="text"/>
COMMISSION RECEIVED TILL DATE* :	\$ <input type="text"/>
<input type="button" value="CALCULATE"/>	

### OUTPUT

AGENT NAME	:	JOHN DOE
AGENT NUMBER	:	AA123456
AGENT CITY	:	TORONTO
TOTAL SALE	:	\$12000
TOTAL COMMISSION	:	\$1800
COMMISSION RECEIVED	:	\$1000
COMMISSION PENDING	:	\$800

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## Question 2:

~~Write a LOOP that counts to 100, only showing the EVEN numbers as output.~~

HINT: Modulus

When the loop gets to 60, instead of showing “60”, show “I can count”, then continue to 100.

### Sample OUTPUT

NOTE: The “dots” indicate filler on the sample output, but your program show the actual count in full.

2, 4, 6, 8, 10, ..... 50, 52, 54, 56, 58, “I can count” ... 96, 98, 100

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## Question 1 Rubric:

Item	Marks	Marks Received (office use only)
2 input fields in HTML for login in as shown in Figure 1	2	
6 input fields in HTML and other <del>HTML components like heading etc.</del> as shown in Figure 2	2	
<del>JavaScript validation for 5 mandatory fields and regular expression</del> validation for proper format of 1 field	5	
<del>JavaScript validation for 3 fields with numeric input only</del>	3	
<del>Store Title or Image Above the form</del>	1	
Correct calculations for total sale	1	
Correct calculations for total commission	4	
Correct calculations for pending commission	2	
HTML output with all the data as shown in Figure 2	4	
<del>Correct file/folder set up: External JS files, CSS files in separate</del> folders	2	
<b>Total</b>	<b>26</b>	

## Question 2 Rubric:

Item	Marks	Marks Received (office use only)
<del>Shows appropriate output, 0 to 98</del>	<del>2</del>	
<del>Shows “I can count by ... “ at the requested location</del>	<del>1</del>	
<del>Correct file/folder set up: External JS files, CSS files in separate</del> folders	1	
<b>Total</b>	<b>4</b>	