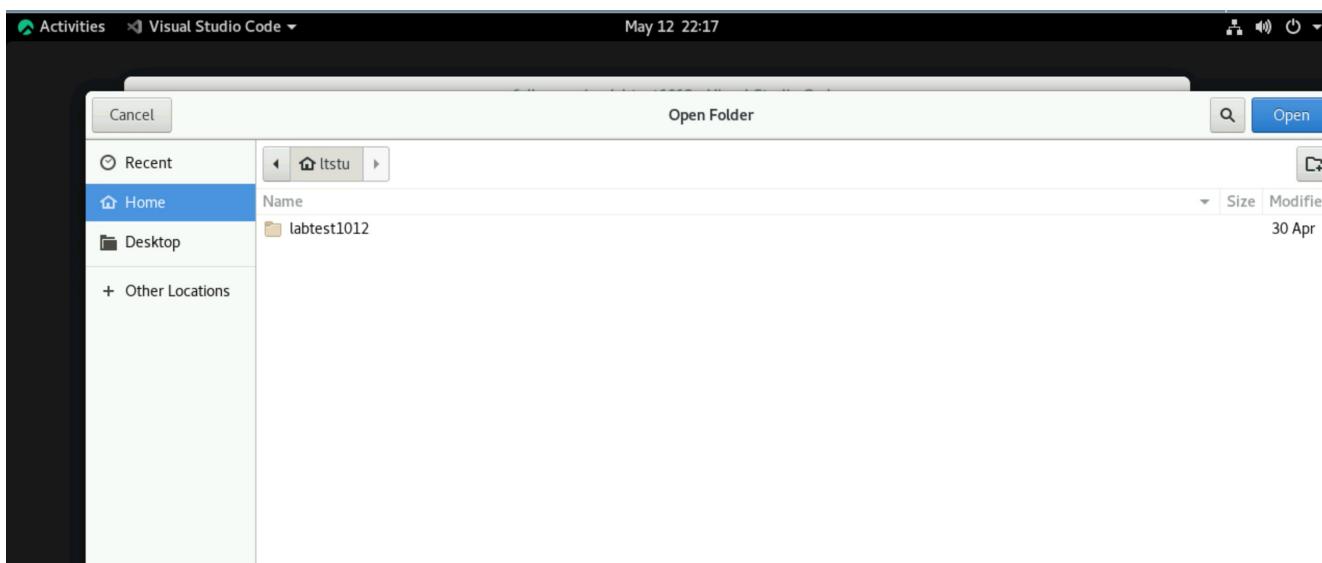


**Important notes:**

- 1) You may access to <https://www.w3schools.com/>, <https://validator.w3.org/>, and <https://jigsaw.w3.org/css-validator/>.
- 2) You must work alone on this test. You should NOT open any email, chat, or networking venues, including WeChat, Skype, Github, etc. You may ask clarification questions to the instructors, but they will not be able to answer any other type of question.
- 3) No inline or embedded styling or scripting is allowed inside your HTML file.
- 4) Make sure the code you submit is well structured and commented!! You can explain your logic in comments, and it may count for partial marks.

To begin, note that there should be a folder in your Home directory named “**labtest1012**”. Inside of this folder are three files: **YourName.css**, **YourName.html** and **YourName.js**. Replace <YourName> in these file names with your full name in lower case and without any spaces. Then open the folder “**labtest1012**” within VS Code. The location of these files on the lab machines is illustrated below.



**Submission:** You must submit your html, css, and js files via **websubmit** before the test time ends!!

The **websubmit** URL is: <https://webapp.eecs.yorku.ca/submit?assignment=labtest1>

**Step 1 [30 points]:** your HTML file should

- A) have a comment at the outset of the file in which you write your full name;  
B) include components like the image below. Components that will be marked include:
- The header h2 (surrounding your full name), the horizontal line, and the image with an appropriate “alt” tag.
  - Appropriate meta tags should be included, as well as a title of your choice.
  - The image should link to the REMOTE file at the following URL: <https://bodescu.me/wp-content/uploads/2015/06/panda.jpg>

- A) be connected to your external CS  
B) be valid (use <https://validator.w3.org/>)  
C) be coded clearly, with good style and with comments as needed.

**Step 2 [30 points]:** your CSS file should

- A) have a comment at the outset of the file in which you write your full name;  
B) include styling like the image below. Styling that will be marked includes:
- The font on the page is Courier.
  - The styling of image: image is centred on the page, the width should be 50% of the screen, the corners of the image should be rounded (any rounding is acceptable).
  - The styling of the h2: text is 32px tall, centred on the page, and when mouse hovers on the text, the colour should become purple, as per the figure below.
  - The background of the page should be light grey.
- C) be valid (<https://jigsaw.w3.org/css-validator/>)  
D) be coded clearly, with good style and with comments as needed.

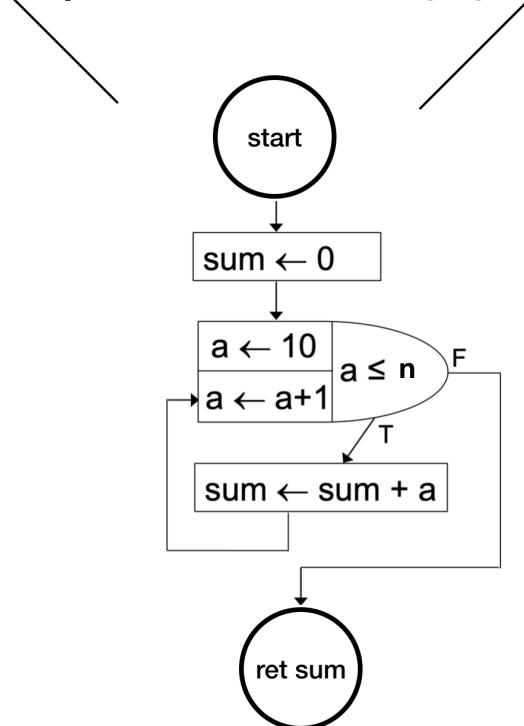


**Step 3 [40 points]:** your JS file should have two functions. The names of the functions should be as follows: **problem1YourName** and **problem2YourName**, where <YourName> should be replaced by your FIRST NAME. Note that these two functions will be independent from one another. That means you can develop them in any order you like. We describe each function below.

### 1. [20 points] Function

**problem1YourName( n ).** When this function is called, control flow equivalent to the flowchart at the top right should execute. Your task is to translate the this flowchart to JavaScript code. The function has a **single parameter n** and it should **return a number** that is the sum every value between 10 and the input number (inclusive). You must use a **LOOP** to make your calculation (i.e. do not alter the algorithm).

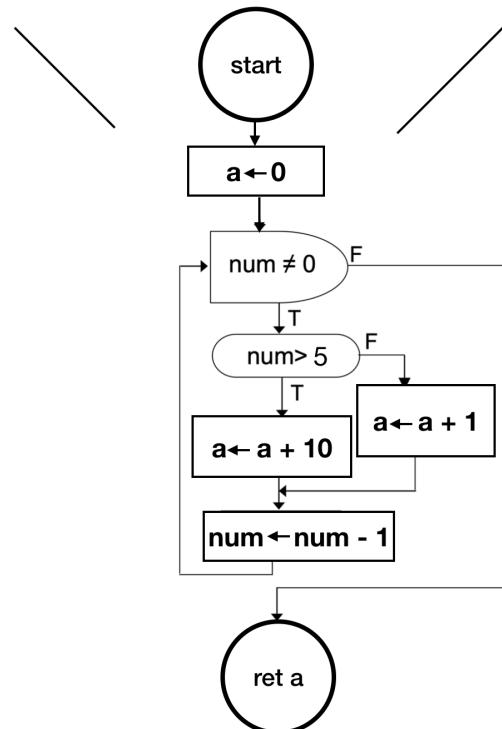
### problem1YourName( n )



### 2. [20 points] Function

**problem2YourName( num ).** When this function is called, control flow equivalent to the flowchart to the bottom right should execute. Your task is to translate the this flowchart to JavaScript code. The function has a **single parameter num** and it should return a sum. This sum will be equal to the input number if it is less than five. If the input is over five, the sum will be  $5 + 10 * (\text{num} - 5)$ . You must use a **LOOP** to make the calculation (i.e. do not alter the algorithm).

### problem2YourName( num )



**Submission:** Submit your html, css, and jsfiles to eClass before the test time ends!!