```
CS 101 - Assignment 4 - Working with html
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Fall 2018

Algorithm Due: Oct 7th, 2018

Program Due: Oct 14th, 2018

All work submitted must be your own.

#### **Deliverables:**

You must use functions to modularize your work in a logical way.

You should use exception handling where necessary as well.

All submitted work must be your own.

50 points off for programs that crash on expected input.

## **HTML Files**

Hypertext Markup Language is the basic language used for web pages. It is just a text file, so we can use python to read an html. The markup in html uses tags for sections and formatting. Tags have an opening and a closing tag. For instance, in the <head> tag, there is normally a title tag that gives the title of the web page.

# Example <html>

The indentation in the above section is only for readability. There may not be any indentation. The important part.

#### **Headers**

The header tag in html indicates the head of a section, and has formatting to make it stand out before its section. <h1> is the highest level, with lower tags <h2>, <h3>, <h4> etc.

```
<h1>My Heading</h1>
Big section of information
<h2>Smaller sub heading</h2>
Big section of information
<h1>Another heading</h1>
Big section of information
```

## Requirements

- Ask user for a valid input file. Must respond to File Not Found Error appropriately.
- Ask user for file to output to. Must respond to IO Errors appropriately.
- Read through input html file for any header tags and export the result as unordered lists to the output file.

### **Example**

```
Enter HTML file to open ==> invalidfile.txt
File not found invalidfile.txt
Enter HTML file to open ==> websample1.html

Enter name of html file to write to ==> out*bad.txt
IO Error out*bad.txt
Enter name of html file to write to ==> output.html

Successfully output to file output.html
Enter HTML file to open ==>
```