

CS118 Programming Assignments

Exam 3 String Demos

1. Create a Python program that will take an arbitrarily long *string* of characters and convert it to a *string* of ASCII values with each ASCII value represented using three characters (with leading zeros, if necessary):

```
Input:  ABCDE
Output: 065066067068069
```

2. Create a Python program that will take an arbitrarily long *string* of 0's and 1's and convert it to a hexadecimal *string*.

```
Binary: 1011011101111011111
Hex:    5BBDF
```

3. Create a Python program that will take an arbitrarily long string of hexadecimal digits and convert it to a binary string.

```
Hex:    5BBDF
Binary: 1011011101111011111
```

4. HTML is a markup language used to provide formatting for web pages. “Tags” are the markers that are inserted into text to indicate the formatting. For example, to make some text bold the tag `` is placed before the text and `` is placed after the text. All HTML tags are within these `< >` brackets.

Create a Python program that will take a web page and remove all HTML tags. Find a simple web page (here's one: http://cs118.kindy.net/simple_html.htm) and view the source for that page. Then copy and paste the source as a string in your program. Triple quotes may be necessary. Be sure to write your program to handle any simple HTML page.