


COMP10001 Foundations of Computing

Semester 2, 2016

Tutorial Questions: Week 10

1. Fill in the blanks, so that the HTML code on the left will produce the output on the right when rendered by a web browser.

```
<!DOCTYPE >
< >
  < >
    < >The Title</ >
  </ >
  < >
    < >
      < >
        < >>bold</ ></ >
        < >>underline</ ></ >
        < >>italic</ ></ >
      </ >
    </ >
    < >> =''>a link</ ></ >
    < >
      < = 'smiley.gif' alt='smiley' />
    </ >
    < > entities </ >
  </ >
</ >
```

1.
 - **bold**
 - underline
 - *italic*
2. [a link](#)
3. 
4. <entities>

2. (a) Write a Python function `array2table` that accepts a required argument `array`, which contains a 2D array of values in a list-of-lists representation. `array2table` must **return** a string containing a HTML-encoded table suitable for embedding into a HTML document, presenting the data in `array`.

```
>>> x = [['a',1],['b',2]]
>>> array2table(x)
'<table><tr><td>a</td><td>1</td></tr><tr><td>b</td><td>2</td></tr></table>'
```

- (b) Extend `array2table` to take two optional arguments `row_headings` and `col_headings`. If `row_headings` is specified, it should be interpreted as a list of strings representing headings for the rows, and similarly for `col_headings`.