

INF 551 – Fall 2016 (Afternoon)

Quiz 4: File formats (10 points)

Solution

1.

Hex UTF-8: C2 A2 42

Binary UTF-8: 11000010 10100010 01000010 (1.5)

Binary Code Point: 00010100010 1000010 (1.5)

Hex Code Point: U+00A2 U+0042 (1)

2.

'{"1":2, "3":[4,5]}'

```
>>> import json
>>> json.dumps([1:2, 3:(4,5)])
'{"1": 2, "3": [4, 5]}'
```

json.dumps() is a JSON encoder which converts Python object to JSON documents:

Python list => JSON array

Python tuple => JSON array (1)

Python dictionary => JSON object (1), keys as strings (1)

3.

The value of attribute "price"(1) in "book" elements under "bib"(0.5) that contain an "author" subelement(0.5) whose content contains the word "Ullman"(1).