INF 559 – Spring 2020
Quiz 4: File Formats (10 points)
10 minutes

1. What is a code space? What are the code space ranges for Unicode and ASCII?   [3 points]
   Code space is the range of numerical values available for encoding characters.
   Unicode code space: 0 to 10FFFF
   ASCII code space: 0 to 7F

2. Which of these is compatible with ASCII?   [1 point]
   a. **UTF-8**
   b. UTF-16
   c. Both a and b
   d. Neither a nor b

3. What does CSV stand for? How would you represent the following data to make it compatible with CSV? Explain any assumptions you make while designing your solution.   [4 points]

restaurant_id	categories	avg_rating
1SWheh84yJXfytovILXOAQ	vegetarian, vegan, patio seating, pet friendly	4.1
ZDFYu8765RFGHN45tghjF1	chinese, quiet, valet parking	4.6

   CSV: Comma-separated values

   Representation:
   Use a delimiter other than a comma (" or ~ or {} or any other) to represent the categories field like:
   1SWheh84yJXfytovILXOAQ, "vegetarian, vegan, patio seating, pet friendly", 4.1
   ZDFYu8765RFGHN45tghjF1, "chinese, quiet, valet parking", 4.6

   Assumption:
   The chosen delimiter (in this case ") does not appear anywhere in the data (e.g. in any of the categories)

4. Arrange these typical chunks of a PNG image in the correct order: **IDAT, IEND, IHDR**   [2 points]
   IHDR
   IDAT
   IEND