# Lecture 4 Quiz

Started: May 10 at 1:50pm

## Quiz Instructions

---

| Question 1 | 1 pts |
|---|---|

Name one file extension type for each of structured, semi-structured, unstructured data type.

structured file extension: .csv

semi-structured file extension: .html

unstructured file extension: .txt

Edit   View   Insert   Format   Tools   Table

12pt ⌄    Paragraph ⌄    |    **B**   *I*   U̲   A ⌄

p ▸ span                    ⌨   ⓘ   |   12 words   </>   ↗   ⋮

## Question 2

**1 pts**

Write a Python code that reads the EE241.csv file from the current directory, converts it into a numpy array and assign to `ee241_np`.

Edit   View   Insert   Format   Tools   Table

12pt ∨   Paragraph ∨   |   **B**   *I*   U̲   A ∨   ✐ ∨   T² ∨   |   ⋮

import panda as pd

ee241_csv = pd.read_csv("EE241.csv")

ee241_np = ee241_csv.to_numpy()

p

⌨   ⓘ   |   12 words   |   </>   ↗   ⋮

## Question 3

**1 pts**

For an empty Python dictionary, `dict_1 = {}`, write a Python code that adds a key "`numbers`" mapping a numpy 1D array containing integers 0 to 10.

Edit   View   Insert   Format   Tools   Table

12pt ∨    Paragraph ∨    |    **B**    *I*    U̲    A ∨    ✎ ∨    T² ∨    |    ⋮

dict_1[numbers] = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

p                                          ⌨    (ⓘ)    |    14 words    |    </>    ↗    ⋮

---

## Question 4                                                          1 pts

Can you append a new value to a Python tuple via `.append()` directive? Explain.

Edit    View    Insert    Format    Tools    Table

12pt ⌄    Paragraph ⌄    |    **B**    *I*    U̲    A ⌄    ✎ ⌄    T² ⌄    |    ⋮

No you can't, Python tuple is an immutable object. Hence any operation that tries to modify it (like append) is not allowed.

p ▸ span                                      ⌨   ⓣ   |   22 words   |   </>   ↗   ⋮⋮

## Question 5                                                                    1 pts

For a 2D array variable `arr_2d`, write a Python code which performs summation alongside the column axis and assign to `arr_2d_col_sum`.

Edit   View   Insert   Format   Tools   Table

12pt ∨   Paragraph ∨   |   **B**   *I*   U̲   A ∨   ✎ ∨   T² ∨   |   ⋮

```
arr_2d_col_sum = array_2d.sum(axis = 0)
```

p ▸ span                                    ⌨   ⓘ   |   6 words   |   </>   ⤢   ⋮

Quiz saved at 2:11pm   | Submit Quiz |