- = -> notebooks from this lecture: https://github.com/krishnatray/RDP-Reading-Data-with-Python-and-Pandas
- -> more advanced features of Pandas for exporting data
- -> we have imported csv data and from SQL databases

-> this is getting into more advanced use cases of importing data

- -> txt files
- -> a csv file is a text file -> human readable text
- -> CSV files are tabular
 - -> comma separated values
 - -> it's a text file which is in a tabular form
 - → -> a CSV file is a tabulated text file

-> to import / read data from external sources without pandas

- -> just Python
- -> for data scientists / analysts
- -> file reading / writing in computers
- -> operating systems process language
- -> you can get a more advanced use case if you get a more
- -> there are multiple concepts with this
- -> you can get a more advanced use case if you know the exact details of the operating system
- -> the open function
- -> it creates a file pointer
- -> grid line
- -> read
- -> its hard to parse the structure of the files
- -> once you wanted to get more advanced usage, its going to get harder
- -> so you use the pandas module
- -> he opens a CSV file in an example
- -> using the CSV module to parse the data
- -> abstracting it away by the pandas module

-> question

Given a file named certificates.csv with these contents:

```
Name$Certificates$Time (in months)
Tom$8$16
Kris$2$5
Ahmad$5$9
Beau$6$12
Fill in the blanks for the missing arguments below:
import csv
with open(__A__, 'r') as fp:
    reader = csv.reader(fp, delimiter=__B__)
    next(reader)
```

for index, values in enumerate(reader):

name, certs_num, months_num = values

print(f"{name} earned {__C__} certificates in {months_num} months")

A: 'certificates.csv'

B: '-'

C: values

A: 'certificates.csv' <- This one

B: '\$'

C: certs_num

A: 'certificates'

B: '\$'

C: certs_num