

ISDS 3200 – LAB

The purpose of this LAB is to create a program that parses data from a tab delimited file and creates a CSV file.

The input file contains records in this format:

```
LSUAM | .Fin and Admin | Technology Transfer 2020-06-08 13:31:56.288CRLF
LSUAM | .Fin and Admin | LSU First 2020-06-08 13:31:56.174CRLF
LSUAM | .Col of AGRI | .Agricultural Economics and Agribusiness 2020-06-08 13:31:56.313CRLF
LSUAM | .Col of AGRI | Dean's Office 2020-06-08 13:31:56.313CRLF
"LSUAM | .Col of AGRI | Plant, Environmental and Soil Sciences" 2020-06-08 13:31:56.313CRLF
LSUAM | .Col of AGRI | Entomology 2020-06-08 13:31:56.175CRLF
```

The output file will need to contain these values:

- Campus: will need to be extracted from the value in column 1 of the input file and will be the value before the first pipe (|)
- Department: Will need to be extracted from the value in column 1 of the input file and will be the value between the first and second pipe (|)
- Unit: Will need to be extracted from the value in column 1 of the input file and will be the value after the last occurrence of the pipe character
- Created Year: Year portion of the data time value in column 2
- Created Month: Month portion of the data time value in column 2
- Created Day: Day portion of the data time value in column 2

```
Campus, Department, Unit, Created Year, Created Month, Created DayCRLF
LSUAM, Fin and Admin, Technology Transfer, 2020, 06, 08CRLF
LSUAM, Fin and Admin, LSU First, 2020, 06, 08CRLF
LSUAM, Col of AGRI, Agricultural Economics and Agribusiness, 2020, 06, 08CRLF
LSUAM, Col of AGRI, Dean's Office, 2020, 06, 08CRLF
```

1. To read in a file, you can use the “open” object in Python. The results for this will be a variable “content”. This variable will be an array that contains each line from the input file as an array element.

```
with open('RawData_TabDelimited.txt') as dataTabDelim:
    content = dataTabDelim.readlines()
```

2. To write to a file, you can use the “open” object in Python and pass the optional second parameter ‘w’ for write.

```
with open('parsedData.csv', 'w') as outputFile:
```

```
    outputFile.write("Campus,Department,Unit,Created Year,Created Month,Created
Day\n")
```