

```
Preparing to unpack .../08-ghostscript_9.26~dfsg+0-0ubuntu0.18.04.14_amd64.deb ...
Unpacking ghostscript (9.26~dfsg+0-0ubuntu0.18.04.14) ...
       Selecting previously unselected package gsfonts.

Preparing to unpack .../09-gsfonts_1%3a8.11+urwcyr1.0.7-pre44-4.4_all.deb ...
       Unpacking gsfonts (1:8.11+urwcyr1.0.7-pre44-4.4) ... Selecting previously unselected package libcupsfilters1:amd64.
       Preparing to unpack .../10-libcupsfilters1_1.20.2-Oubuntu3.1_amd64.deb ... Unpacking libcupsfilters1:amd64 (1.20.2-Oubuntu3.1) ...
       Setting up libs9-common (9.26-dfsg+0-0ubuntu0.18.04.14) ...
Setting up fonts-droid-fallback (1:6.0.1r16-1.1) ...
Setting up gsfonts (1:8.11+urwcyr1.0.7-pre44-4.4) ...
       Setting up poppler-data (0.4.8-2) ...
Setting up fonts-noto-mono (20171026-2) ...
       Setting up libcupsfilters1:amd64 (1.20.2-0ubuntu3.1) ... Setting up libcupsimage2:amd64 (2.2.7-1ubuntu2.8) ...
       Setting up libjbig2dec0:amd64 (0.13-6) ...
       Setting up libijs-0.35:amd64 (0.35-13) ...
Setting up libgs9:amd64 (9.26-dfsg+0-0ubuntu0.18.04.14) ...
       Setting up ghostscript (9.26~dfsg+0-0ubuntu0.18.04.14) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
       Processing triggers for fontconfig (2.12.6-Oubuntu2) ...
Processing triggers for libc-bin (2.27-3ubuntu1.2) ...
       /sbin/ldconfig.real: /usr/local/lib/python3.7/dist-packages/ideep4py/lib/libmkldnn.so.0 is not a symbolic link
[ ] 1 import camelot
         2 tables = camelot.read_pdf('apple_report_q1.pdf')
[ ] 1 tables
       <TableList n=1>
[ ] 1 tables[0]
       <Table shape=(28, 3)>
[ ] 1 tables.export('web_report.html',f='html')
        1 tables[0].to_html('web_report_1.html')
         2 tables[0].to_json('json_report.json')
         3 tables[0].to_excel('excel_report.xlsx')
         4 tables[0].to_sqlite('sql_report.sqlite')
        1 import tabula
         2 tables_2 = tabula.read_pdf("apple_report_ql.pdf", pages='all')
[ ] 1 tables_2
              CONDENSED CONSOLIDATED STATEMENTS OF OPERATION...
              (In millions, except number of shares which ar...
                                                               Three months ended
                                    December 26, 2020 December 28, 2019
Net sales
Products 95.678 79.104
        Froducts 95.6/8 79.104

Services 15,76f 12,715

Total net sales 1,11,439 91,819

Operating Income 33,534 25,569

Other income/ expense, net 45 349

Income before provision for income taxes 33,57...
                               Provision for income taxes 4,824 3,682
Net income 28,755 22,236
                                                              Earnings per share
Basic 1.70 1.26
Diluted 1.68 1.25
         14
15
                       Shares used in computing earnings per share
Basic 1,69,35,119 1,76,60,160
                                       Diluted 1,71,13,688 1,78,18,417
Net sales by reportable segment:
Americas 46,310 41,367
                                                Europe 27,306 23,273
Greater China 21,313 13,578
                                        Japan 8,225 7,378
Rest of Asia pacific 8,225 7,378
                                          Total net sales 1,11,439 91,819]
```

## **Explanation:**

- Camelot
- 1. Imported the camelot library and further installed ghostscript as an addon for working of camelot library.
- 2. Read the pdf using camelot's readpdf function.
- ${\bf 3.} \ {\bf Created} \ {\bf different} \ {\bf file} \ {\bf formats} \ {\bf lik} \ {\bf html, excel, json, sql} \ {\bf using} \ {\bf camelot's} \ {\bf different} \ {\bf functions.}$
- Tabula
- 1. Read the pdf using tabula's read pdf function and displayed the table as an output.

## Difference between tabula and camelot:

Tabula does not produce all of the header text, whereas Camelot correctly places all of the headers in the appropriate cells. Tabula moves part of the data points to the left, whereas Camelot keeps the table in its original position. Tabula will not be able to generate efficient output if the table is rotated, however Camelot would. Camelot produces superior output than Tabula in terms of Column span and Row span. Tabula transfers some headers from the top-right to the left, whereas Camelot does not.

## # Conclusion :

From this practical, I learned about Camelot and tabula libraries which are used to extract the information from the pdf and can convert it into another forms like sql, html and json without much effort. from this we can analysis easily.

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