Importing Packages

```
In []: import pandas as pd
    from pathlib import Path
    import glob
    from pypdf import PdfReader
    from PyPDF2 import PdfMerger
    import re
    import csv
```

Merge PDFs

Read PDF

```
In [ ]: reader = PdfReader(file_path)

In [ ]: full_text = []
    for p in range(len(reader.pages)):
        page = reader.pages[p]
        # print(page.extract_text())
        lsg_text = page.extract_text()
        full_text.append(lsg_text)

# print(full_text)

In [ ]: type(full_text)

Out[ ]: list

In [ ]: # converting List items to string
    text_string = ''.join(full_text)

In [ ]: type(text_string)

Out[ ]: str
```

Text Extraction

```
In [ ]: # Use of regex
pattern = r'\b\d{7}\b.*\b\d{4}\b'
matches = re.findall(pattern, text_string)
print(matches)
```

['1080429 2000', '1080736 1000', '1079677 2000', '1079960 1000', '1079599 2000', '1079906 1000', '1080772 1000', '1079951 2000', '1080613 1000', '1079686 2000', '1080486 1000', '1080673 1000', '1079337 1000', '1 080748 1000', '1080595 1000', '1080610 1000', '1080386 1020', '1080625 1000', '1081013 1010', '1080628 1000', '1079695 1000', '1080568 1000', '1080457 1000', '1080782 1000', '1080463 1000', '1079858 1000', '1079978 1000', '1080457 1000', '1080466 1000', '1081014 1010', '1079879 1000', '1081011 0010', '1080616 1000', '1080563 1000', '1079972 1000', '1080727 1000', '1080784 2000', '108064 1000', '1080448 1000', '1080622 1000', '1079413 1000', '1080661 1000', '1080436 1000', '108064 1000', '1080718 1000', '1079384 1000', '1080712 1000', '1080579 1000', '1080637 1000', '108059 1000', '108064 1000', '1080650 1000', '1080466 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000', '1080667 1000',

```
In []: first_numbers = []
    second_numbers = []

for item in matches:
    first, second = item.split()
    # first, second = map(int, item.split())
    first_numbers.append(first)
    second_numbers.append(second)

print("First numbers:", first_numbers)

print("Second numbers:", second_numbers)

def digit_sum(number):
    return sum(int(digit) for digit in number)

total_sums = [digit_sum(num) for num in second_numbers]

#print("Original List:", second_numbers)
print("Total sums list:", total_sums)
```

First numbers: ['1080429', '1080736', '1079677', '1079960', '1079599', '1079966', '1080772', '1079951', '1080613', '1079686', '1080486', '1080673', '1079337', '1080748', '1080595', '1080610', '1080386', '1080625', '1081013', '1080628', '1079695', '1080568', '1080457', '1080782', '1080463', '1079858', '1079858', '1080778', '1079978', '1080133', '1080466', '1081014', '1079879', '1081011', '1080616', '1080563', '1079972', '1080727', '1080784', '1080604', '1080448', '1080622', '1079413', '1080661', '1080436', '1080766', '1080500', '1080718', '1079384', '10806712', '1080579', '1080637', '1080539', '10810440', '1080492', '1081042', '1080769', '1080492', '1080661', '1080492', '1080769', '1080769', '1080769', '1080478', '1080478', '1080679', '1080679', '1080679', '1080679', '1080478', '1080757', '1080700', '1080489', '1080797']

Second numbers: ['2000', '1000', '2000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '100

'1000', '1000', '1000', '1000', '1000', '1000', '1010', '1010', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000', '1000'

Exporting csv

```
In []: csv_file = open('LSG_Quantities.csv', 'w', newline='')
    csv_writer = csv.writer(csv_file)
    csv_writer.writerow(['Sales Purchase Order Number', 'Quantities', 'Total'])

for first, second, third in zip(first_numbers, second_numbers, total_sums):
        csv_writer.writerow([first, second, third])

csv_file.close()

print("CSV file 'LSG_Quantities.csv' created.")

CSV file 'LSG_Quantities.csv' created.
```