

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

```
In [ ]: folder_path = Path(r'C:\Users\sular\OneDrive\1.Data Analysis & Engineering\Data Engineering\Data Enginee
```

```
In [ ]: list(folder_path.rglob('*.pdf'))
```

```
Out[ ]: [WindowsPath('C:/Users/sular/OneDrive/1.Data Analysis & Engineering/Data Engineering/Data Engineering P
         projects/LSG-PDF-Manifests-Extraction-Python/Data/Run Manifest (1).pdf'),
         WindowsPath('C:/Users/sular/OneDrive/1.Data Analysis & Engineering/Data Engineering/Data Engineering P
         projects/LSG-PDF-Manifests-Extraction-Python/Data/Run Manifest.pdf')]
```

```
In [ ]: # Create an instance of PdfMerger() class
        merger = PdfMerger()
```

```
In [ ]: for file_name in folder_path.rglob('*'):
        # print(file_name)
        merger.append(file_name)

        merger.write("Final.pdf")
        merger.close()
```

```
In [ ]: file_path = 'Final.pdf'
```

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)
```

```

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)

```

Exporting csv

CSV file 'LSG_Quantities.csv' created.