PDF MERGER PROGRAM — CONCEPT NOTES

1. Core Python Concepts
- import: to use external libraries
- lists: store multiple file paths
- loops (for, while): repeat tasks
- try-except: error handling
- input(): take user input
- str.strip(): removes extra spaces
- os.path.isfile(): checks if file exists
- functions/methods: append(), write(), close()

2. Modules Used
- PyPDF2: PdfMerger to merge PDFs
- os: verify file paths

3. Program Logic
- Ask number of PDFs
- Validate input (must be number)
- Take file paths & verify existence
- Store valid paths
- Append PDFs using PdfMerger
- Save merged file

4. Key Learnings
- Robust input validation
- Working with files & directories
- Using Python libraries to automate tasks
- Practical use of loops + conditions
- Building real-world automation tools

5. Practice Tasks
Beginner:
- Take numbers & store in list
- Ask for file names & check existence
Intermediate:
- Merge text files instead of PDF
- Merge all files in folder automatically
Advanced:
- Build GUI tool using Tkinter
- Add custom output file name
- Sorting PDFs before merging

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