# Program for Keywords Searching from multiple PDF files searching

Author: Muzaffar Ali

Version: 1.0

Created: 31/07/2024

Copyright: (c) Muzaffar Ali

License: Public

## Purpose

This program searches for multiple keywords in all PDF files within the specified directory.

## Requirements

- OS Module: Provides functions for interacting with the operating system, such as reading or writing files and directories.  
- PdfReader from PyPDF2: Used to read PDF files.

## Environment Setup

Ensure you have the `PyPDF2` library installed. You can install it using the command:  
```  
pip install PyPDF2  
```

## Execution

1. Save the provided code in a file named `pdf\_keyword\_searcher.py`.  
2. Open a terminal or command prompt.  
3. Navigate to the directory where `pdf\_keyword\_searcher.py` is saved.  
4. Run the program using the command:  
```  
python pdf\_keyword\_searcher.py  
```

## How It Works

1. Function `get\_pdf\_files(directory)`:  
 - Parameter: `directory` (str): The directory path to search for PDF files.  
 - Description: The function takes a directory path and returns a list of all PDF files in that directory.  
  
2. Function `search\_keywords\_in\_pdf(file\_path, keywords)`:  
 - Parameters: `file\_path` (str): The path to the PDF file. `keywords` (list): The keywords to search for in the PDF file.  
 - Description: The function searches for multiple keywords in a given PDF file and returns a dictionary where each keyword maps to a list of pages where it is found and the total count of keyword occurrences.  
  
3. Main Function `main()`:  
 - Description: The main function executes the script. It prompts the user for the directory path containing PDF files and the keywords to search for. It then searches for the keywords in each PDF file and prints the results.  
 - Steps:  
 1. Prompt the user to enter the directory path containing the PDF files.  
 2. Get the list of PDF files in the directory.  
 3. Prompt the user to enter the keywords to search for, separated by commas.  
 4. Search for the keywords in each PDF file and print the results.  
 5. Print the grand total occurrences of each keyword.  
 6. Ask the user if they want to search for more keywords.

## Output

The program prompts the user for a directory path containing PDF files and keywords to search for. It then searches for the keywords in each PDF file and prints the pages and total occurrences of the keywords found. If no keywords are found, it prints a message indicating so.