Project 3

Project Description:

This program that reads single or multiple input file and search the words in the input file that
satisfy conditions provided by the user as command line arguments with python. This code when run
using the terminal will prompt the user to enter a word he/she wants to look for in any .txt file.
After that, the program will go through the whole .txt file which should be in the same directory as
the code, and then search for all the occurrences of the word and report it along with the line number
and which word in the it is. The file name/names will be taken as command line arguments. The is not
case sensitive, for example if searching for the word "fish", even "FISH" can come in the occurrences.
The code would basically read the file line by line to search for the word desired by the user to be
displayed with the line and word number. Sample input files named sample 1.txt and sample2.txt found
online are provided for testing the code with. The code will print N/A if a word is not found in the
specified file/files.

Running Code Example:

Example 1: Code execution without case difference.

```
C:\Users\Jayesh Mohite\Desktop>projectJ3.py sample1.txt
Enter the word you want to search for: non
File Name        Line Number      Word Number       Word
sample1.txt      4                5                 non
```

Example 2: Code execution with case difference and multiple files.

```
C:\Users\Jayesh Mohite\Desktop>projectJ3.py sample1.txt sample2.txt
Enter the word you want to search for: INcididunt
File Name        Line Number      Word Number       Word
sample1.txt      1                13                incididunt
sample2.txt      1                13                incididunt
sample2.txt      100              13                incididunt
sample2.txt      1099             13                incididunt
sample2.txt      2099             13                incididunt
sample2.txt      3899             13                incididunt
```

Example 3:Code execution where the word does not exist in all files provided.

```
C:\Users\Jayesh Mohite\Desktop>projectJ3.py sample1.txt sample2.txt
Enter the word you want to search for: fuguiguihioihioh
File Name       Line Number     Word Number     Word
sample1.txt     N/A             N/A             fuguiguihioihioh
sample2.txt     N/A             N/A             fuguiguihioihioh
```