**FOR PART 1**

At first, on running the program, the program will ask for the term we want to search

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After that, it will ask for the path, and Search for user input term in all text documents (.txt) in the user given directory and sub-directories and it will print the result. The result will print;

1. Number of .txt files that has the user entered term ignoring the case i.e

If we search for word ‘ruby’ it will match all the word ‘ruby’ with different case present in a file for example ‘RUBY’, ‘ruBY’, ‘RuBy’ etc

1. Total number of .txt files in the directory
2. The number of searched term present in each file
3. The number of total words in each file that has searched term
4. The portion of searched term in a file

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In above, result it shows two matching .txt file out of 4 .txt files which have matching result, Checking if our output is correct by manually opening the file and checking the file content.

It is true for Test1.txt as it has only 4 ‘ruby’ word out of 16 word, also it ignored case matching all the patterns of the word’ruby’

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Similarly, the output is also true for second file test2t.xt. Out of 30 words in a file, there is 3 word ‘ruby’and also it matched ignoring the case.

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If the path doesn’t exist, the program will print the statement, ‘ path not found’

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If the entered term doesn’t match in any of the file, the program will print, 0 out of total number of files have the term A screenshot of a social media post

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**FOR PART 2**

On running the program, the program will ask for the term

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After that, the program will ask for the path, and search for user input term in all files with extension .pdf,.txt,.docx,.doc iin the user given directory and sub-directories and it will print the result on pressing enter

The result includes

1. Total number of files with extension pdf,.txt,.docx,.doc in the directory and the number of file that has the user entered term among those files ignoring the case I.e. If we search for word ‘ruby’ it will match all the word ‘ruby’ with different case present in a file for example ‘RUBY’, ‘ruBY’, ‘RuBy’ etc

**Case-insensitive** is achieved by changing the code in gem search\_in\_file in line 30 i.e. i.e In line 30 changing the **p.include?(term) into p=~/#{term}/i**

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1. The total number of searched terms in each file
2. The total number of words in each file that has the searched term
3. The portion of searched term in a file

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In the above output it shows, there are 4 files out of 6 which has the word ruby, To check if the program’s output is correct we can manually open the files and check for searched term and total number of words.

/Users/saileshkhadka/RubymineProjects/BIT246/week7/sample\_input\_files/TestFolder/Test1.txt

The total number of word is 16

The total number of word ruby is 4

The portion is 25.0 %

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In /Users/saileshkhadka/RubymineProjects/BIT246/week7/sample\_input\_files/Test2.txt

The total number of word is 30

The total number of word ruby is 3

The portion is 10.0 %

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In /Users/saileshkhadka/RubymineProjects/BIT246/week7/sample\_input\_files/Test4.pdf

The total number of word is 119

The total number of word ruby is 1

The portion is 0.84 %

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In /Users/saileshkhadka/RubymineProjects/BIT246/week7/sample\_input\_files/Test5.docx

The total number of word is 87

The total number of word ruby is 1

The portion is 1.15 %

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On checking each output files and comparing the result, it shows that program’s output is true for each file. Also, the program was able to match all the words ignoring the case.

If the path doesn’t exist, the program will print the statement, ‘path not found’

‘out of 0 file 0 has the word’.

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If the entered term doesn’t match in any of the file, the program will print, ‘out of total number of files 0 have the term.’

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