Assignment No.5

Write a custom context manager FileContext which will take file\_name as mandatory position parameter and mode as optional positional parameter. Such that when you use this context manager with one parameter (only file\_name) then the file will automatically open in read mode. You will make sure this context manager also close the file in case of any exception.

Following are the file mode, you can use to test this context manager

# r+ : read and write -- you can open it and write it, but file will not be

created  
# w+ : read and write -- you can open a file, if it does not exist it will be

created  
# a+ : read and write -- you can open a file, it does not exists it will be

created, and if it already exists then text will be appended into the

file  
# r : open file for read only, file must already be there  
# w : open file, if file does not exist then it will be created

Example to use this context manager is as follows

with FileContext('e:\\file\_name.txt','a+') as file:  
 file.writelines("This is another line\n")  
 file.writelines("This is 2nd line\n")

with FileContext('e:\\file\_name.txt') as file:  
 file.readline("This is another line\n")  
 file.readline("This is 2nd line\n")

Note: You must submit the source code (.py file), in any other format will

not be accepted and zero point will be awarded.

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candidates who are involve in plagiarism. Also, after dead line no

assignment will be accepted. If you have any question in mind you can

discuss it in class or email or in office