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Subject: **Programming Lab1**

Experiment No. 5

AIM: To write an application to edit a text file.

THEORY :

File handling in Python is a powerful and versatile tool that can be used to perform a wide range of operations. However, it is important to carefully consider the advantages and disadvantages of file handling when writing Python programs, to ensure that the code is secure, reliable, and performs well.

Python treats files differently as text or binary and this is important. Each line of code includes a sequence of characters and they form a text file. Each line of a file is terminated with a special character, called the EOL or End of Line characters like comma {,} or newline character. It ends the current line and tells the interpreter a new one has begun. Let's start with the reading and writing files.

CODE:

To write an application to edit a text file.

```
def read_file_contents(file_name="sent.txt"):
    file = open(file_name, "r")
    print(f"Text in the file is: {file.read()}\n")
    file.close()

read_file_contents()
text = input("Enter the text to be added to the file: ")
file = open("sent.txt", "a")
```

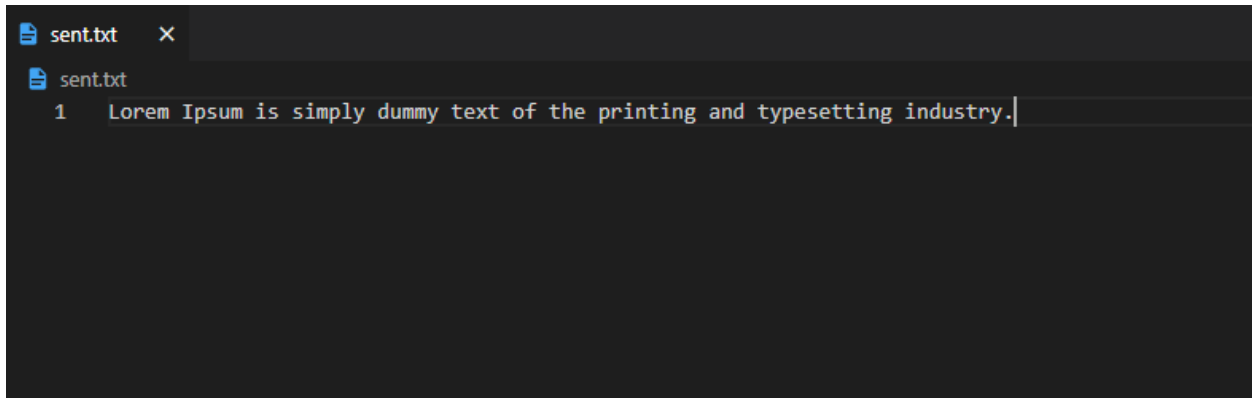
```
file.write(" " + text)

file.close()

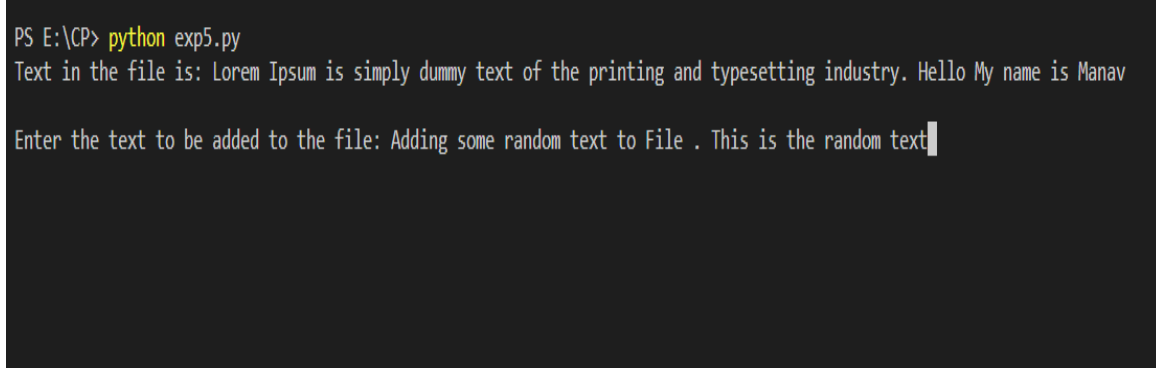
read_file_contents()
```

OUTPUT:

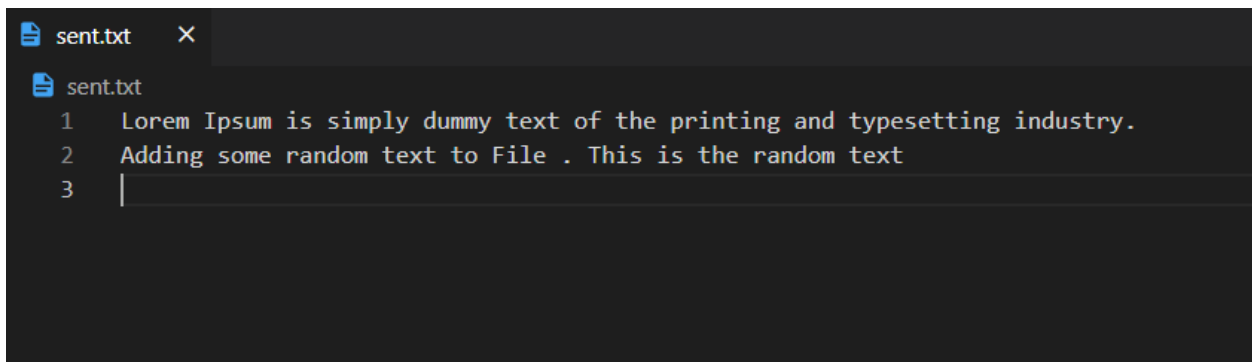
Contents of the file before Editing:

A screenshot of a text editor window titled 'sent.txt'. The editor shows a single line of text: '1 Lorem Ipsum is simply dummy text of the printing and typesetting industry.' The line is numbered '1' on the left margin. The cursor is at the end of the line.

Program Output

A screenshot of a terminal window. The prompt is 'PS E:\CP> python exp5.py'. The output is 'Text in the file is: Lorem Ipsum is simply dummy text of the printing and typesetting industry. Hello My name is Manav'. Below this, there is a prompt 'Enter the text to be added to the file:'. The user has entered 'Adding some random text to File . This is the random text'.

Contents of the file after Editing:

A screenshot of a text editor window titled 'sent.txt'. The editor shows three lines of text: '1 Lorem Ipsum is simply dummy text of the printing and typesetting industry.', '2 Adding some random text to File . This is the random text', and '3'. The lines are numbered '1', '2', and '3' on the left margin. The cursor is at the end of the third line.

CONCLUSION: From this experiment, we learnt about File handling in python. We created an application to edit a text file and add more content to the text file by taking input from the user. We can perform file handling in python by opening the file using the open() function provided by python.