



Vidyavardhini's College of Engineering & Technology

Department of Computer Engineering

Exploring Files and directories: Python program to append data to existing file and then display the entire file
Date of Performance:
Date of Submission:



Vidyavardhini's College of Engineering & Technology

Department of Computer Engineering

Experiment No. 5

Title: Exploring Files and directories: Python program to append data to existing file and then display the entire file

Aim: To Exploring Files and directories: Python program to append data to existing file and then display the entire file

Objective: To Exploring Files and directories

Theory:

Directory also sometimes known as a folder are unit organizational structure in computer's file system for storing and locating files or more folders. Python now supports a number of APIs to list the directory contents. For instance, we can use the `Path.iterdir`, `os.scandir`, `os.walk`, `Path.rglob`, or `os.listdir` functions.

Python too supports file handling and allows users to handle files i.e., to read and write files, along with many other file handling options, to operate on files. The concept of file handling has stretched over various other languages, but the implementation is either complicated or lengthy, but unlike other concepts of Python, this concept here is also easy and short. Python treats file differently as text or binary and this is important. Each line of code includes a sequence of characters and they form 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 Reading and Writing files.

Working of open() function

We use `open ()` function in Python to open a file in read or write mode. As explained above, `open ()` will return a file object. To return a file object we use `open()` function



Vidyavardhini's College of Engineering & Technology

Department of Computer Engineering

along with two arguments, that accepts file name and the mode, whether to read or write. So, the syntax being: `open(filename, mode)`. There are three kinds of mode, that Python provides and how files can be opened:

“r”, for reading.

“w”, for writing.

“a”, for appending.

“r+

Code:

```
import os
def append_to_file(file_name, data):
    try:
        with open(file_name, 'a') as file:
            file.write(data + '\n')
    except FileNotFoundError:
        print("File not found.")
def display_file(file_name):
    try:
        with open(file_name, 'r') as file:
            print("Contents of", file_name)
            print(file.read())
    except FileNotFoundError:
        print("File not found.")
def list_directory():
    directory = os.getcwd()
    print("Files in directory:")
    for file_name in os.listdir(directory):
        print(file_name)
def main():
    file_name = input("Enter the file name: ")
    data = input("Enter data to append to the file: ")
    append_to_file(file_name, data)
    display_file(file_name)
    list_directory()
if __name__ == "__main__":
    main()
```



Vidyavardhini's College of Engineering & Technology

Department of Computer Engineering

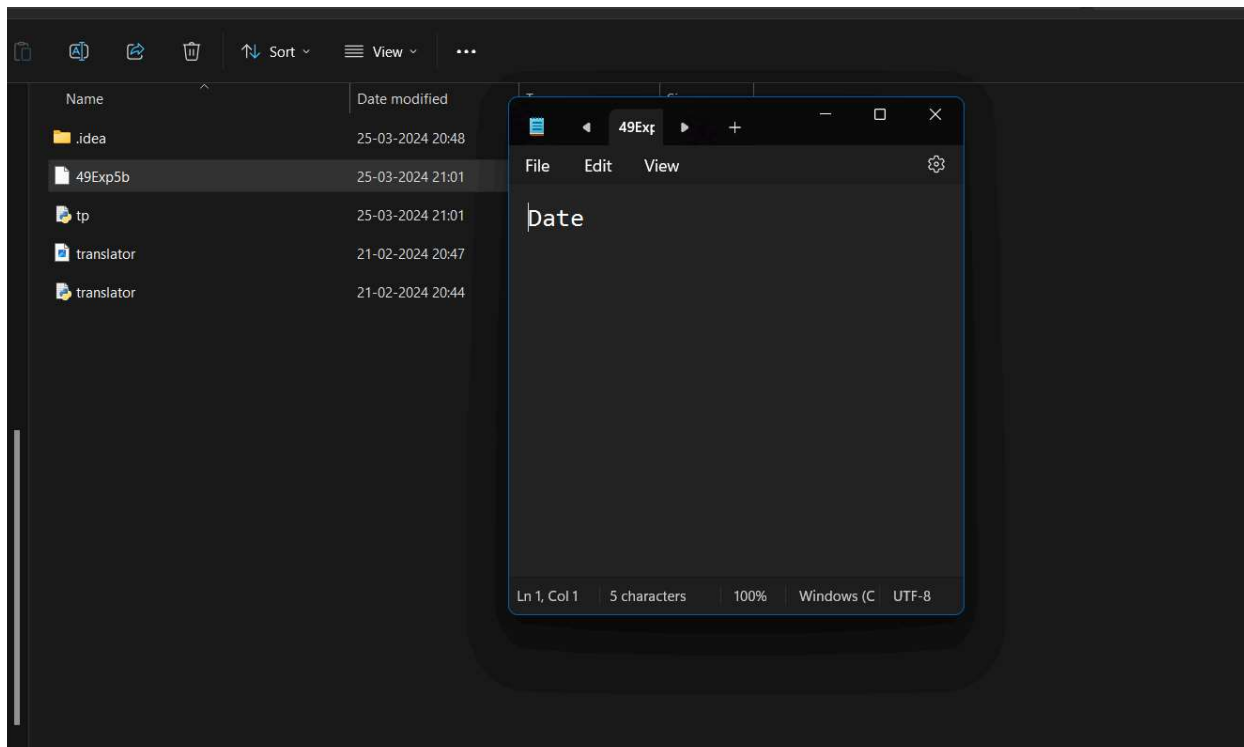
Output:

```
Enter the file name: 49Exp5b
Enter data to append to the file: Date
Contents of 49Exp5b
Date
Files in directory:
.idea
49Exp5b
tp.py
translator.png
translator.py
Process finished with exit code 0
```



Vidyavardhini's College of Engineering & Technology

Department of Computer Engineering



Conclusion: Directories and files have been explored.