School of Computer Science Engineering and Technology

Course- BTech
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Type- Specialization Core
Course Name- Data Analysis using Python
Semester- Odd
Batch-

Lab # No. (4) File handling

CO Mapping

Lab No.	Name	CO1	CO2	CO3
4	File handling	↗	↗	↗

Introduction:

File handling in Python involves interacting with files on your system to read from or write to them. You use the built-in open() function to access a file, specifying the mode ('r' for reading, 'w' for writing, etc.). After opening a file, you can use methods like .read(), .write(), or .append() to manipulate its contents. It's important to close the file using .close() to free up system resources. Python also supports using with statements, which automatically handle opening and closing files. This ensures files are properly managed even if errors occur during processing.

1. **WAP in Python to accomplish the following task.**
   a) Open the text file1 in read, write and append mode; also read the contents of the file1.
   b) Open the water.png file in binary mode, read all lines of png file and print the size of file.
   c) Read only the first 4 characters of file1.
   d) Return all lines of file1 as elements of a list (each line must be an item of list).
   e) Finally close the text and png file.

2.   a) Put the names of your five friends in a list using for loop and write the contents of the list to a text file. Now read the contents of the file.
     b) Write a program in Python to create a binary file first.bin and write the first five natural numbers in the binary file first.bin; finally print the contents of the binary file.

3. **WAP in Python to accomplish the following task.**
   a) Create two files and read the content of one file and write it to the other file.
   b) Write a program in Python that can count the number of occurrences of the words "this" in file1.
   c) Print the current working directory.