File Handling- Text, Binary & csv files

Q1: Write a Python program to read and display the entire content of a text file.

Q2: Write a program to read and display the first 5 characters of the first line from a text file.

Q3: Write a program to read the first line from a file and display it as a list.

Q4: Write a program to read all lines from a file and display them line by line.

Q5: Write a program to read and display only the first line from a file using `readlines()`.

Q6: Write a program to display the first character of each line from a text file.

Q7: Write a program to display the first character of each line in lowercase from a text file.

Q8: Write a program to count and display the total number of characters in a file.

Q9: Write a program to count the number of characters in the first line of a file.

Q10: Write a program to find the number of characters in the first line using `readlines()`.

Q11: Write a program to display the last two characters of each line in a text file.

Q12: Write a program to read all characters from a file and display them in uppercase.

Q13: Write a program to count the number of uppercase characters in a text file.

Q14: Write a program to count the number of spaces in a file.

Q15: Write a program to count the number of vowels in a text file.

Q16: Write a program to write multiple lines to a file and display the content.

Q17: Write a program to read data from one file and write it to another file.

Q18: Write a program to copy data from one file to another while removing spaces.

Q19: Write a program to copy data from one file to another while removing vowels.

Q20: Write a program to copy only alternate characters from one file to another.

Q21: Write a program to count the frequency of a user-input word in a file.

Q22: Write a program to copy only lines starting with "The" from one file to another.

Q23: Write a program to read an entire file using the `readline()` method.

Q24: Write a program to read a file and swap the case of all characters.

Q25: Write a program to take a list of 5 numbers from the user and write it to a file.

Q26: Write a program to take 5 numbers, store them in a file, and read only even numbers.

Q27: Write a program to replace a specific word in a file and write it to another file.

Q28: Write a program to replace a word in the same file.

Q29: Write a program to replace a word in a file with another word.

Q30: Write a program to replace a character in a file with another character (user input).

Q31: Write a program to replace a word with another word using user input.

Poem Text :

1. Q1: Write a Python program to create a file named `poem.txt` and write a short poem into it.
2. Q2: Write a Python program to read and display the contents of `poem.txt`.

3. Q3: Write a Python program to replace the word "sky" with "cloud" in `poem.txt`.

Csv, Binary files:

Q1: Write a Python program to append text to a file and print the first letter of each line in uppercase.

Q2: Write a Python program to store and retrieve a string using a binary file with the `pickle` module.

Q3: Write a Python program to read a CSV file and print the second column of each row.

Q4: Write a Python program to create a CSV file and write student data (RollNo, Name, Grade) into it.

Q5: Write a Python program to append text to a file and print the third letter of each line in uppercase.

Q6: Write a Python program to store and retrieve a string using a binary file with `pickle`.

Q7: Write a Python program to create a CSV file and write subject names and student scores into it.

Q8: Write a Python program to read a CSV file and print the second column of each row.

Exception handling

Here are one-liner questions for each code snippet:

First Try-Except Block: Write a Python program to handle a `KeyError` exception when accessing a non-existent key in a dictionary.

Second Try-Except Block: Write a Python program that raises a `KeyError` manually if a specific key is not found in a dictionary.

Que1: Write a Python program to take five subject marks, calculate the total, and raise an exception if the total exceeds 500.

Que2: Write a Python program to create a list of user-input numbers and handle an `IndexError` when accessing an invalid index.

Binary file

Q1: Write a Python program to store book details (ID, author, price) in a binary file using `pickle` and display the stored data.

Q2: Write a Python program to store student details (percentage, admission number, name) in a binary file using `pickle` and display the stored data, stopping input if the percentage is below 75.

Q3: Write a Python program to store bus details (bus number, starting point, destination) in a binary file using `pickle`, allowing input only for buses with 'kochin' as the destination.