

#1. Write a function in python to read the content from a text file "ABC.txt" line by line and display the same on screen.

```
In [27]: def read_file_line_by_line(file_name):
# Open the file in read mode
with open('salesdata.csv', 'r') as file:
# Read and display each line
for line in file:
print(line.strip()) # Use strip() to remove any trailing newli
read_file_line_by_line('salesdata.csv')
```

```
Region,Manager,SalesMan,Item,Units,Unit_price,Sale_amt
East,Martha,Alexander,Television,95,1198,113810
Central,Hermann,Shelli,Home Theater,50,500,25000
Central,Hermann,Luis,Television,36,1198,43128
Central,Timothy,David,Cell Phone,27,225,6075
West,Timothy,Stephen,Television,56,1198,67088
East,Martha,Alexander,Home Theater,60,500,30000
Central,Martha,Steven,Television,75,1198,89850
Central,Hermann,Luis,Television,90,1198,107820
West,Douglas,Michael,Television,32,1198,38336
East,Martha,Alexander,Home Theater,60,500,30000
Central,Hermann,Sigal,Television,90,1198,107820
East,Martha,Diana,Home Theater,29,500,14500
East,Douglas,Karen,Home Theater,81,500,40500
East,Martha,Alexander,Television,35,1198,41930
Central,Douglas,John,Desk,2,125,250
East,Martha,Alexander,Video Games,16,58.5,936
Central,Hermann,Sigal,Home Theater,28,500,14000
East,Martha,Alexander,Cell Phone,64,225,14400
East,Douglas,Karen,Cell Phone,15,225,3375
Central,Hermann,Shelli,Video Games,96,58.5,5616
Central,Douglas,John,Television,67,1198,80266
East,Douglas,Karen,Video Games,74,58.5,4329
Central,Timothy,David,Home Theater,46,500,23000
Central,Douglas,John,Home Theater,87,500,43500
East,Martha,Alexander,Home Theater,4,500,2000
West,Timothy,Stephen,Home Theater,7,500,3500
Central,Hermann,Luis,Video Games,50,58.5,2925
Central,Martha,Steven,Television,66,1198,79068
East,Martha,Diana,Cell Phone,96,225,21600
Central,Timothy,David,Television,53,1198,63494
Central,Timothy,David,Home Theater,80,500,40000
Central,Hermann,Shelli,Desk,5,125,625
East,Martha,Alexander,Video Games,62,58.5,3627
Central,Hermann,Sigal,Video Games,55,58.5,3217.5
Central,Hermann,Shelli,Video Games,42,58.5,2457
West,Timothy,Stephen,Desk,3,125,375
Central,Timothy,David,Television,7,1198,8386
West,Timothy,Stephen,Cell Phone,76,225,17100
West,Douglas,Michael,Home Theater,57,500,28500
Central,Martha,Steven,Television,14,1198,16772
Central,Hermann,Luis,Home Theater,11,500,5500
Central,Hermann,Luis,Home Theater,94,500,47000
Central,Marth,Steven,Home Theater,28,500,14000
```

#2. Write a function in Python to count and display the total number of words in a text file "ABC.txt"

```
In [22]: def count_words_in_file(file_name):  
    # Open the file in read mode  
    with open('salesdata.csv', 'r') as file:  
        # Read the entire content of the file  
        content = file.read()  
  
        # Split the content into words using whitespace as the delimiter  
        words = content.split()  
  
        # Count the number of words  
        word_count = len(words)  
  
        # Display the total number of words  
        print(f"Total number of words: {word_count}")  
  
    # Call the function with the filename 'ABC.txt'  
    count_words_in_file('salesdata.csv')
```

Total number of words: 71

#3. Write a function in Python to count uppercase character in a text file "ABC.txt"

```
In [28]: def count_uppercase_in_file(file_name):  
    # Initialize a counter for uppercase letters  
    uppercase_count = 0  
  
    # Open the file in read mode  
    with open('salesdata.csv', 'r') as file:  
        # Read the file line by line  
        for line in file:  
            # Iterate over each character in the line  
            for char in line:  
                # Check if the character is uppercase  
                if char.isupper():  
                    uppercase_count += 1  
  
    # Display the total number of uppercase characters  
    print(f"Total number of uppercase characters: {uppercase_count}")  
  
    # Call the function with the filename 'ABC.txt'  
    count_uppercase_in_file('salesdata.csv')
```

Total number of uppercase characters: 207

#4. Write a function display_words() in python to read lines from a text file "story.txt", and display those words, which are less than 4 characters.

```
In [33]: def display_words(file_name):  
    # Open the file in read mode  
    with open('salesdata.csv', 'r') as file:  
        # Read the file line by line  
        for line in file:  
            # Split each line into words  
            words = line.split()  
  
            # Iterate through the words and check their length  
            for word in words:  
                if len(word) < 4:  
                    print(word)  
  
    # Call the function with the filename 'story.txt'  
    print(display_words('salesdata.csv'))
```

None

In []: