SUMANTH S
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PYTHON LAB: 10 FILES IO

QUESTIONS:

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

```python
with open('abc.txt', 'r', encoding='utf-8') as file: #opening text file and reading the contents of the file
    file_contents = file.read() # reading the file content using read() function
print(file_contents) # print file content
```

Output:

Sushant Singh Rajput (often spelled as "Sushant") was an Indian actor who primarily worked in the Hindi film industry.
He was born on January 21, 1986, in Patna, Bihar, India, and tragically passed away on June 14, 2020.
Sushant began his career on television and gained popularity for his role in the serial "Pavitra Rishta," where he portrayed the character of Manav Deshmukh.

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

```python
with open('abc.txt', 'r', encoding='utf-8') as file: #opening text file and reading the contents of the file
    file_contents = file.read() # reading the file content using read() function
    count = len(file_contents) # count the words in the file
    print("The total number of words in a text file = ",count) #print the count
    print("***********************************************")
print(file_contents) # print file content
```

Output:

The total number of words in a text file = 379
****
Sushant Singh Rajput (often spelled as "Sushant") was an Indian actor who primarily worked in the Hindi film industry.
He was born on January 21, 1986, in Patna, Bihar, India, and tragically passed away on June 14, 2020.
Sushant began his career on television and gained popularity for his role in the serial "Pavitra Rishta," where he portrayed the character of Manav Deshmukh.

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

```python
with open('abc.txt', 'r', encoding='utf-8') as file: #opening text file and reading the contents of the
file
    file_contents = file.read() # reading the file content using read() function
    count = 0 # initializing count ---> 0
    for char in file_contents: # traversing the file contents
        if char.isupper(): # checking the character is uppercase
            count += 1
print("The total count of uppercase characters in abc.txt = ",count) #print total uppercase
characters count
```

Output:
```
The total count of uppercase characters in abc.txt = 17
```

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.

```python
def display_words(filename): # defined a function with name display word
    with open('story.txt', 'r', encoding='utf-8') as file: #opening text file and reading the contents of
the file
        for line in file: # traversing the content of file
            words = line.split() # split the words from the file
            for word in words:
                if len(word) < 4: # if the word length is less than 4
                    print(word,end=" ") # print the word
display_words("story.txt") # calling the function
```

Output:
```
a in a and a boy was for his and he the and of the out new and
```