Python Programming
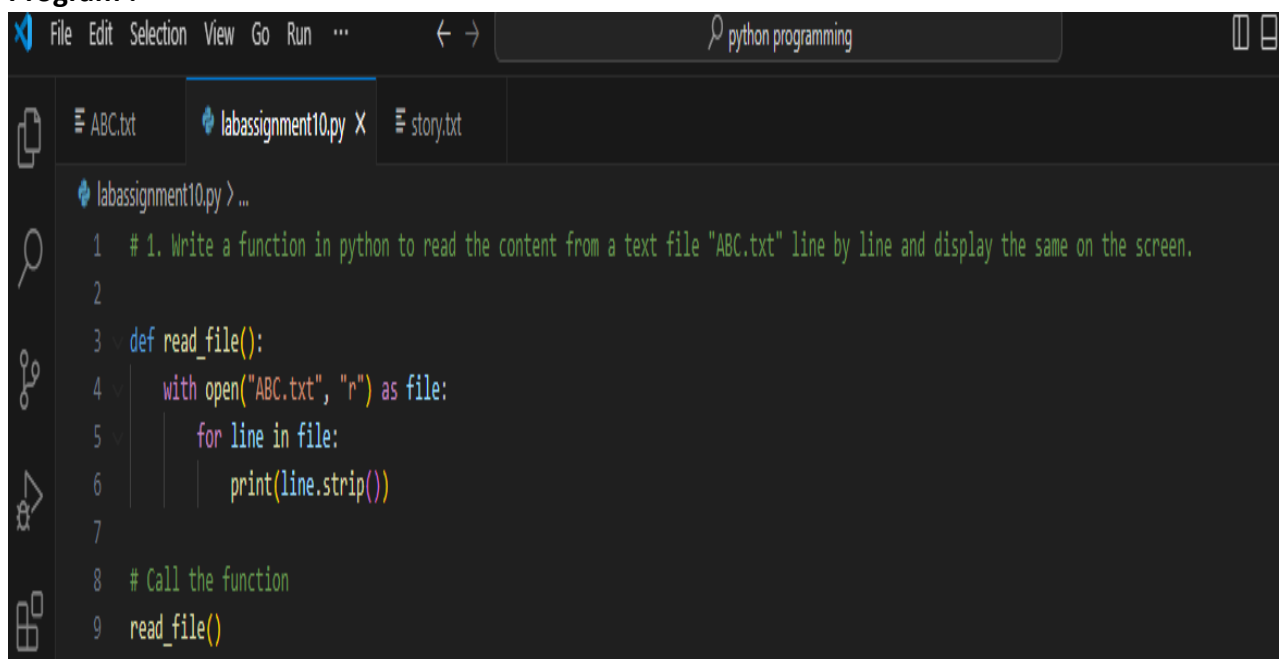
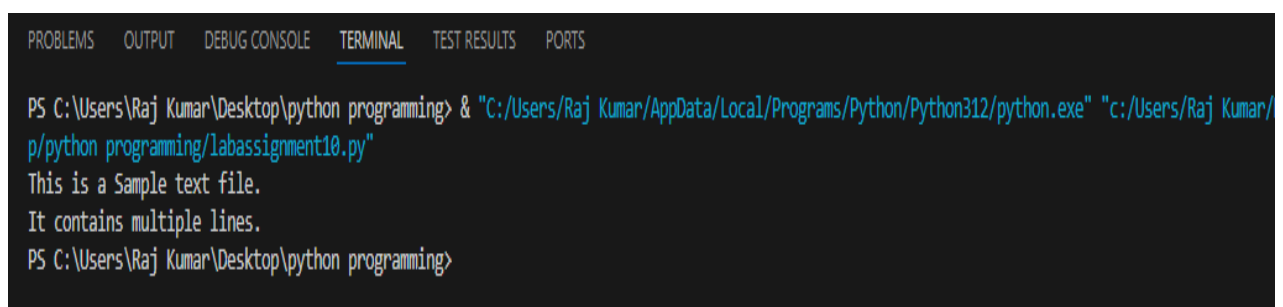Lab: - 10(Files I/O)

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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.

Program :-


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

def read_file():
    with open("ABC.txt", "r") as file:
        for line in file:
            print(line.strip())

# Call the function
read_file()
```

Output:-


```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    TEST RESULTS    PORTS

PS C:\Users\Raj Kumar\Desktop\python programming> & "C:/Users/Raj Kumar/AppData/Local/Programs/Python/Python312/python.exe" "c:/Users/Raj Kumar/
p/python programming/labassignment10.py"
This is a Sample text file.
It contains multiple lines.
PS C:\Users\Raj Kumar\Desktop\python programming>
```

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

Program:-

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

def count_words():
    with open("ABC.txt", "r") as file:
        content = file.read()
        words = content.split()
        print(f"Total number of words: {len(words)}")

# Call the function
count_words()
```

Output:-

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    TEST RESULTS    PORTS

PS C:\Users\Raj Kumar\Desktop\python programming> & "C:/Users/Raj Kumar/AppData/Local/Programs/Python/Python312/python.exe" "c:/Users/Raj Kumar/Deskto
p/python programming/labassignment10.py"
Total number of words: 10
PS C:\Users\Raj Kumar\Desktop\python programming>
```

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

Program:-

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

def count_uppercase():
    with open("ABC.txt", "r") as file:
        content = file.read()
        uppercase_count = sum(1 for char in content if char.isupper())
        print(f"Total number of uppercase characters: {uppercase_count}")

# Call the function
count_uppercase()
```

Output:-

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

Program:-

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

def display_words():
    with open("story.txt", "r") as file:
        for line in file:
            words = line.split()
            short_words = [word for word in words if len(word) < 4]
            for word in short_words:
                print(word)

# Call the function
display_words()
```

Output:-