

PYTHON Lab Assignment3

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Assignment on File Handling:

1. Write Python program to read file word by word

```
with open("file1.txt") as f:
    content = f.read()
    word_list = content.split()

    for word in word_list:
        print(word)
```

2. Write Python program to read character by character from a file

```
with open("file1.txt") as f:
    while True:
        char = f.read(1)
        print(char)
        if char == "":
            break
```

3. Write Python program to get number of characters, words, spaces and lines in a file

```
char_count, word_count, space_count, line_count = 0, 0, 0, 0
```

```
with open("questions.txt") as f:
    content = f.read()
    char_count = len(content)
    word_count = content.split()
    space_count = content.count(' ')
    line_count = content.count('\n') + 1

    print(char_count)
    print(word_count)
    print(space_count)
    print(line_count)
```

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4. Write Python program to Count the Number of occurrences of a key-value pair in a text file

```
with open("file1.txt") as file:
    count = 0
    key, value = 'Name', 'Rahul'
    for line in file:
        if key in line and value in line:
            count += 1
print(count)
```

5. Write Python program to Find 'n' Character Words in a Text File

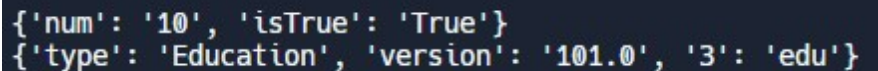
```
with open("file.txt") as file:
    n = 6
    words = file.read().split()
    for word in words:
        if len(word) == n:
            n_character_words = word
            print(n_character_words)
```

6. Write Python program to count number of lines in a text file in Python

```
line_count = 0
with open("questions.txt") as f:
    for lines in f:
        line_count += 1
print(line_count)
```

7. Write Python program to read List of Dictionaries from File(gfg copied)

```
def parse(d):
    dictionary = dict()
    # Removes curly braces and splits the pairs into a list
    pairs = d.strip('{}').split(',')
    for i in pairs:
        pair = i.split(':')
        # Other symbols from the key-value pair should be stripped.
        dictionary[pair[0].strip('\\"\'')] = pair[1].strip('\\"\'')
    return dictionary
with open('file.txt') as file:
    lines = file.read().split('\n')
    for l in lines:
        if l != '':
            dictionary = parse(l)
            print(dictionary)
```



```
{ 'num': '10', 'isTrue': 'True' }
{ 'type': 'Education', 'version': '101.0', '3': 'edu' }
```

output

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8. Write Python program to Append content of one text file to another

```
with open("file1.txt") as file1:
    f1_content = file1.read()

with open("file2.txt", "a") as file2:
    file2.write(f1_content)
```

9. Write Python program to reverse the content of a file and store it in another file

```
with open("file.txt") as input:
    content = input.read()

with open("output_file.txt", mode='w') as output:
    output.write(content[::-1])
```

10. Write Python program to merge two files into a third file

```
with open("file1.txt") as file1:
    f1_content = file1.read()
with open("file2.txt") as file2:
    f2_content = file2.read()

with open("mergedFile.txt", "x") as file3:
    file3.write(f1_content)
    file3.write("\n")
    file3.write(f2_content)
```