[Solution] CP05

August 14, 2022

1 Class Partipation 04

1.1 Kindly follow the given instructions below

1. Download this file.
2. Rename your file with your ID like.,
   - *YOUR_NAME* - *CP05* - *YOUR_ROLL_NUMBERR* ==>
     Abdullah Ali - CP05 - 19250152
3. Write your solution of every question in its respective cell or block.
4. Upload this file with your solutions.
5. There will be **NO** any other file to be submitted.
6. Penalty for plagirisam is to be straight **ZERO**.
7. **NO LATE SUBMISSION.**
8. LATE SUBMISSION WILL BE MARKED ZERO

1.1.1 Exercise-01

Write a function in python to count the number of lines from a text file "story.txt" which is not starting with an alphabet "T".

Example: If the file "story.txt" contains the following lines;

A boy is playing there. There is a playground. An aeroplane is in the sky. The sky is pink. Alphabets and numbers are allowed in the password.

Create story.txt file manually first, add above lines.

```python
[1]: with open('story.txt', 'r') as file:

        counter = 0
        for i in file:
            if i[0] not in 'T':
                counter += 1
        print('There are {} number of line(s) which is/are not starting with an␣
     ↪alphabet \"T\".'.format(counter))
        file.close()
```

There are 3 number of line(s) which is/are not starting with an alphabet "T".

1.1.2 Exercise-02

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
[2]: def display_words():
         with open('story.txt', 'r') as file:

             data = file.read()
             words = data.split()

             for word in words:
                 if len(word) < 4:
                     print(word, end=' ')
             file.close()

     display_words()
```

A boy is is a An is in the The sky is and are in the

1.1.3 Exercise-03

Write a function in Python to count words in a text file those are ending with alphabet "e".

```python
[3]: def count_words():
         with open('story.txt', 'r') as file:

             data = file.read()
             words = data.split()

             counter = 0
             for word in words:
                 if word[-1] == 'e':
                     counter += 1
             print(counter, 'alphabets ending with \'e\'')
             file.close()

     count_words()
```

6 alphabets ending with 'e'

1.1.4 Exercise-04

Create a "student.csv" file with dummy students data having fields ID, Name, Dept, CGPA, Semester, Marks. Write a program to read all content of "student.csv" and display records of only those students who scored more than 80 marks. Records stored in students is in format : ID, Name, Marks

```python
[4]: import csv
     rows = []
```

```python
with open("student.csv", "r") as csv_file:
    csv_reader = csv.reader(csv_file)
    next(csv_reader)

    for row in csv_reader:
        rows.append(row)

    print("ID\tName\tMarks")

    for row in rows:
        if float(row[5]) > 80:
            print(row[0], "\t", row[1], "\t", row[5])
```

```
ID      Name    Marks
190      Aeman   85
210      Uzair   90
170      Wahab   92
```