
EEP773

**Telecom Software
Lab**

**ASSIGNMENT No. 09
Report**

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Chapter 1

Problem Statement

1.1 For determining behaviour of users

- Python is useful in data analysis and string manipulation.
- In this assignment, you are supposed to analyze a data file on the basis of different emoticons and words that reflect emotions.
- Content file is given in the below format
- A dictionary is also given to predict the meaning of emoticons and some specific words.
- Depending on this dictionary, you have to count the number of emoticons and words that are there in the dictionary.
- Finally output the behavior of user.
- Also output percentage of different behaviors that are found in the dictionary.

1.2 Bonus marks

Add method to include more contents in the database.

Chapter 2

Assumption

- The content file will be passed through commandline argument.
- For any user frequency of different modes used is calculated and maximum is assumed to be his behavior

Chapter 3

Logic Implemented

3.1 Determining behavior of users

- Each line of the text file is traversed through for loop then each word is again traversed in the line and checked for the emoticons.
- If a particular emoticon is matched then the corresponding mode is updated in an array and this is done for each user and the mode of the user is determined based upon the maximum count of each mood of the users

3.2 Calculating the percentage

The percentage of each mood is calculated based upon the mood count that was counted earlier in this program.

Chapter 4

Output Snapshot

```
debesh@administrator-desktop:~/Desktop/python$ ./test.py content.txt
-----It is assignment 9-----
.....Behaviour of different users.....
A is  Neutral
B is  Happy
C is  Happy
D is  Happy
E is  Happy
G is  Surprised
-----
.....Percentage of different moods used.....
Happy : 32.0
Sad 0.0
Sarcastic 8.0
Surprised 24.0
Crook 8.0
Neutral 12.0
Angry 12.0
debesh@administrator-desktop:~/Desktop/python$
```

Figure 4.1: output

Bibliography

- [1] <https://developers.google.com/edu/python/>
- [2] <https://docs.python.org/2/tutorial/>
- [3] <http://www.tutorialspoint.com/python/>