Assignment Report

ELP-718 Telecom Software Lab

SEMESTER:- I

YEAR:- M.Tech (2016-2017)

Submitted by

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1 Introduction

Python is a general-purpose interpreted, interactive, object-oriented, and high-level programming language. It was created by Guido van Rossum during 1985- 1990. Like Perl, Python source code is also available under the GNU General Public License (GPL). This tutorial gives enough understanding on Python programming language.

2 Problem Statement

Problem statement 1

- Write a Python program that can take a big string (with spaces) as input from the command line and count number of times a word occurs in the string and also print the top 3 words in terms of their frequency of count.
- Also print the next permutation of each word appearing in the string.

Problem statement 2

- designing a Graphical user Interface (GUI) to depict the location of a mobile user in a square
- generate the user location using the random function generator function in Python to generate a number between [0,1).

Problem statement 3

- Need to design an addressing code for a shipping company that works all around India. The address given by the customer is split into fields of
- Name, House No/colony/landmark
- City
- District

3 Implementation

3.1 Problem 1

- Name and types of parameters
  string
- Input
  string
- Ouput
  word frequency
- Algorithm
  - first frequency is found for each words
  - then sorting is done to get top three
  - then word and its frequency is printed

3.2 Problem 2

- calculate number of points that lie inside unit radius circle in terms of percentage.
- input
  x which is no of users
- output
  displayin percentage
- algorithm
  using random function location ar4e generated
  then simply checking whether it is within unit radius or not

3.3 Problem 3

- design an addressing code for a shipping company that works all around India. The address given by the customer .
- input
  asking the the operation user want to do
  like add,delete ,modify
- output
  displaying the
- algorithm
  using random function location ar4e generated
  then simply checking whether it is within unit radius or not

4 Test Description and Results

The results obtained can be seen from the screenshots taken and file attached with folder.

5 Screenshots

5.1 Screenshot of output of ps1

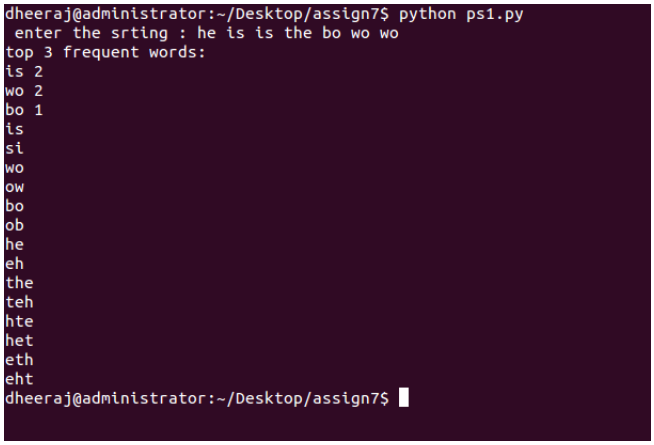

Figure 1: Screenshot of problem statement 1

5.2 Screenshot of output of ps2

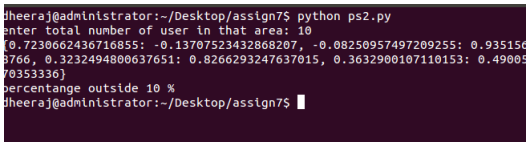

Figure 2: Screenshot of problem statement 2

5.3 Screenshot of output of ps3

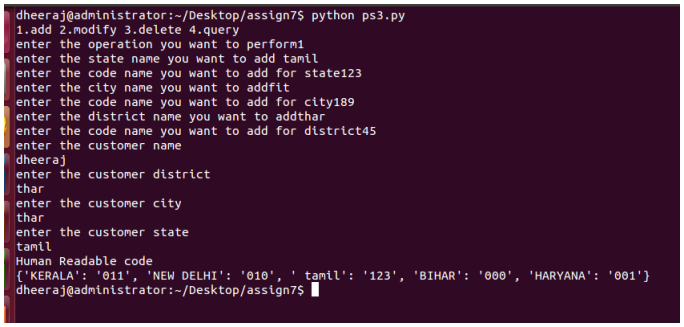

Figure 3: Screenshot of problem statement 3

References

[1] latex
https://www.stackexchange.com

[2]

[3] Programming Simplified
http://www.tutorialspoint.com/python

[4] Hacker Rank: C;
http://www.grymoire.com

6 Epilogue

1. some in built functions are handy to use
2. i question no 3 ifoun difficulty