TObject Oriented Programming Lab Spring 2020
Lab10: File Handling

Task 1

Create a program for writing records of 10 students in a text fie Students.txt. Store roll no, first name, last

name, department and section of student.

Output should be like this in the file.

Student.txt

123 Asad Ali CS A.

321 Abbas Khan EE C.

342 Bilal Haider FSM A.

Task 2

Write a function called **printLines()** receiving two arguments: the first one must be a positive integer n, and the second the name of a text file as string. The function must print on the screen the last n lines of the given file, if there are less number of lines then n they must be printed as well.

Task 3

Here we want to play with some alphabets of English Language - '**VOWELS**'.

Write a class **Vowels** with member variables

→ string FileName

→ int numberOfLines

Member Functions:

→ Vowels(string filename)

→ int getNumberOfLines()
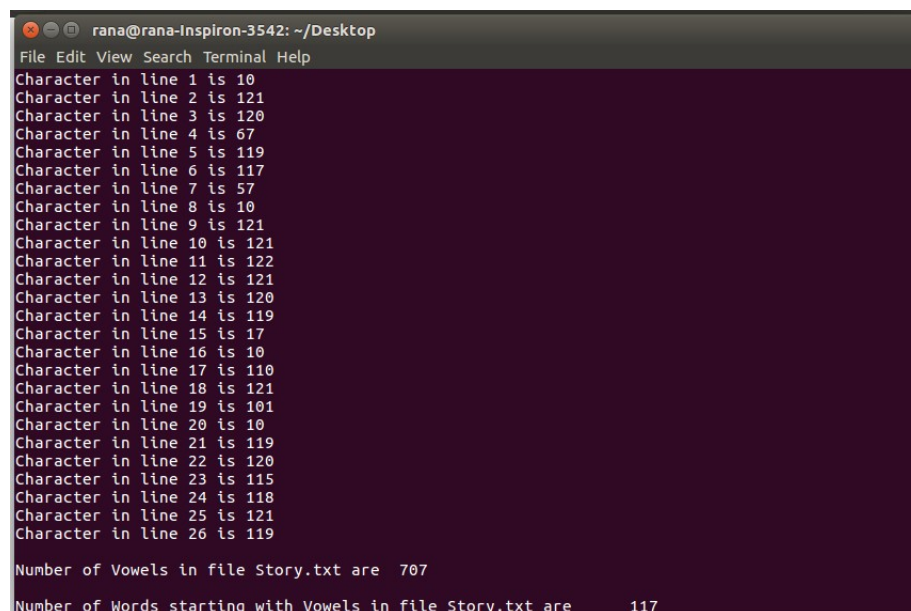
→ string getFileName()

→ void setNumberOfLines(int lines)

→ void **VowelGame(string filename)**

      Tasks to Perform in VowelGame:

      1) Print number of characters written on each line of file

      2) Print count of vowels present in entire file

      3) Print count of words starting with vowels

NOTE: We have provided you a test file named 'Story.txt'. Output of this test file is as follows.


```
rana@rana-Inspiron-3542: ~/Desktop
File Edit View Search Terminal Help
Character in line 1 is 10
Character in line 2 is 121
Character in line 3 is 120
Character in line 4 is 67
Character in line 5 is 119
Character in line 6 is 117
Character in line 7 is 57
Character in line 8 is 10
Character in line 9 is 121
Character in line 10 is 121
Character in line 11 is 122
Character in line 12 is 121
Character in line 13 is 120
Character in line 14 is 119
Character in line 15 is 17
Character in line 16 is 10
Character in line 17 is 110
Character in line 18 is 121
Character in line 19 is 101
Character in line 20 is 10
Character in line 21 is 119
Character in line 22 is 120
Character in line 23 is 115
Character in line 24 is 118
Character in line 25 is 121
Character in line 26 is 119

Number of Vowels in file Story.txt are  707

Number of Words starting with Vowels in file Story.txt are     117
```