

Lab 13
PF – BSDS

Note: Use file 'paragraph.txt', either read file or copy contents of the file and store in some string variable for next tasks:

Task 1: Count words in the paragraph. The character to separate the words is space, full stop and comma. Also count and print words starting from each alphabets (if they are not zero, means do not display zero count). At the end print total sum of individual count, which should tally (match) with total word count. See sample run carefully.

Sample Run:

```
Words Count: 132
Words started from A are: 17
Words started from B are: 7
Words started from C are: 8
Words started from D are: 6
Words started from E are: 6
Words started from F are: 7
Words started from G are: 3
Words started from H are: 5
Words started from I are: 14
Words started from J are: 1
Words started from L are: 4
Words started from M are: 4
Words started from N are: 3
Words started from O are: 7
Words started from P are: 8
Words started from Q are: 2
Words started from R are: 5
Words started from S are: 3
Words started from T are: 15
Words started from U are: 1
Words started from W are: 6
Total words count by adding word count of individual alphabets: 132
```

Task 2: Again, read paragraph character by character. Count each alphabet in the paragraph ignoring case. (Count capital and small alphabets as the same). Print count of each alphabets for the alphabets appearing in the paragraph, if any alphabets is not in the paragraph. Do not display its count. Finally, print total count of alphabets and total count of characters in the paragraph:

Sample Run:

```
Letter A appears 60 times
Letter B appears 10 times
Letter C appears 21 times
Letter D appears 22 times
Letter E appears 80 times
Letter F appears 16 times
Letter G appears 15 times
Letter H appears 17 times
Letter I appears 56 times
Letter J appears 1 times
Letter K appears 7 times
Letter L appears 32 times
Letter M appears 17 times
Letter N appears 52 times
Letter O appears 48 times
Letter P appears 18 times
Letter Q appears 2 times
Letter R appears 42 times
Letter S appears 44 times
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Letter T appears 60 times
Letter U appears 21 times
Letter V appears 10 times
Letter W appears 9 times
Letter X appears 1 times
Letter Y appears 11 times
Letter Z appears 1 times
Total alphabets in the paragraph: 673
Total characters in the paragraph: 820