

Practice 8 – while loop with files

Task 01: File 'nums.txt' has 10000 integers. Read integers and find their average. Your answer should be:

Average: 4.9937

Task 02: File 'nums.txt' has 10000 integers. Read integers. Count and print occurrences of integers 1 to 9. Your answer should be:

Count of 1: 1141
Count of 2: 1126
Count of 3: 1088
Count of 4: 1115
Count of 5: 1066
Count of 6: 1142
Count of 7: 1068
Count of 8: 1124
Count of 9: 1130

Task 03: Repeat previous task and write count into another file name 'counts.txt'. File should contain counts only, no other text like:

1141
1126

Task 04: Read file 'counts.txt'. Read counts and add them to check whether it is equal to 10000

Task 05: Read file letters.txt'. Read count of each alphabet including both capital (A to Z) and small alphabets (a to z). Print count of each alphabet:

Note 1: use an extra fscanf to read line feed character

```
n = 1;
while (n <= 5575){
    fscanf (file, "%c", &c);
    //place your logic here for counting alphabets

    fscanf (file, "%c", &c);    //Put this extra statement at bottom
    n = n + 1;                //to read line feed character from file
}
```

Sample Output:

Count of A: 297
Count of B: 53