

ANKARA UNIVERSITY
COM101B
Fall 2017-18 Term
LAB3 Quiz

Date: 20/10/2017 **Group** 2

Duration: 60 minutes

Write a C program that reads a sequence of numbers, until the EOF is reached, from the stdin and computes the sum of the digits of each number. Test your program using input redirection method.

I/O Format:

Input: <n₁> <n₂> ...<n_k>

Output: <d₁> <d₂> ...<d_k>\n

Example:

Sample input: 12 345 75219 90 4 56

Compute the sum of the digits for each number such as: 1+2=3, 3+4+5=12, 7+5+2+1+9=24 etc.

Output: 3 12 24 9 4 11

Hint: Remember that **EOF** is a predefined macro which stands for End Of File. You can capture EOF using scanf function as follows:

```
int x;
while(scanf("%d",&x) != EOF)
{    <do something>    }
```

Suggestion:

Prepare sample input files, i.e. **input.txt**, to test your program. Assume that your executable is **lab3**.

Test your programs like this:

>./lab3<input.txt

Submission: Your source code will be named using your student ID: <student-id>.c

Ex: if your id is 1123456 than you should name your source code like this: 1123456.c

Please test your program thoroughly before submission.

Good luck ☺