

LAB101 Assignment

Type:
Code:
LOC:
Slot(s):

Short Assignment
C.S.P0032
26
1

Title

Addition of digits in a natural number.

Background

N/A

Program Specifications

Implement a program that takes input as a natural number and calculate sum of digits in that natural number.

Function details:

1. Function 1: Display a screen to prompt users to input a natural number.
 - Users run the program, be prompted to input a decimal number.
 - Users input a natural number, perform Function 2.
2. Function 2: Calculate sum of digits in the decimal number
 - The program calculates sum of digits in the inputted decimal number.
 - Perform Function 3.

3. Function 3: Output sum of digits in the inputted decimal number.

After completing Function 3, the program asks users to enter any key to repeat Function 1

Expectation of User interface:

```
Sum Digit Program
Enter an integer n=123
Sum digit = 6
Press any key to continue.
Enter an integer n=-152
Sum digit = 8
Press any key to continue.
```

Guidelines

* Students should use the provided `dump_line()` function to clear the buffer after invoking the `scanf()` function (call: `dump_line(stdin)`).