|  |  |  |
| --- | --- | --- |
| **LAB101 Assignment** | **Type:** | **Short Assignment** |
| **Code:** | **C.S.P0030** |
| **LOC:** | **44** |
| **Slot(s):** | **1** |

**Title**

Addition of odd/even numbers.

**Background**

N/A

**Program Specifications**

Design a program that prompt users to input a natural number and calculate the sum of odd and even numbers

***Function details:***

1. Function 1: Display screen that prompts users to enter the number of natural numbers.

* Users run the program, prompt users to input the number of natural numbers (n).
* User inputs a number, perform Function 2.

1. Function 2: Prompt users to input natural numbers.

* Ask users to input natural numbers according to the preceded inputted number (n) (maximum 10 numbers).
* After inputting all numbers, perform Function 3.

1. Function 3: Sum of odd numbers.

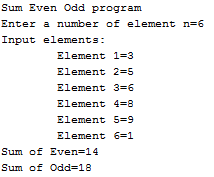
* Calculate the sum of odd inputted numbers.
* Perform Function 4.

1. Function 4: Sum of even numbers.

* Calculate the sum of all even inputted numbers.
* Perform Function 5.

1. Function 5: Output sum of odd and even numbers to the screen.

***Expectation of User interface:***



**Guidelines**

If the remainder of a division by 2 is 0, then the dividend is an even number; otherwise the dividend is an odd number.

In C language, to get the remainder of a division, use modulo operator (%)

Example: 3%2 = 1.

*\*Students should use the provided dump\_line() function to clear the buffer after invoking the scanf() function (call: dump\_line(stdin)).*