Computer Programming

Lab5

Apr. 11, 2025

Ex3

- Write a program that takes a user input and outputs the sum. It takes up to 10 values, and if a negative number is input, the program terminates and outputs the sum.

Ex3

- **Program output**

```
[ohyong@cse ~/cp/Lab5]$ vi ex5_3.c
[ohyong@cse ~/cp/Lab5]$ gcc ex5_3.c -o ex5_3
[ohyong@cse ~/cp/Lab5]$ ./ex5_3
Enter n1: 2.4
Enter n2: 4.5
Enter n3: 3.4
Enter n4: -3
Sum = 10.30
[ohyong@cse ~/cp/Lab5]$ ./ex5_3
Enter n1: 5
Enter n2: 7.8
Enter n3: 10.3
Enter n4: 5.6
Enter n5: 2.8
Enter n6: -4.8
Sum = 31.50
[ohyong@cse ~/cp/Lab5]$ ./ex5_3
Enter n1: 1
Enter n2: 2
Enter n3: 3
Enter n4: 4
Enter n5: 5
Enter n6: 6
Enter n7: 7
Enter n8: 8
Enter n9: 9
Enter n10: 10
Sum = 55.00
```

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Ex extra

- Write a program that determines whether a given year is a leap year or not.
  - A year is a leap year if it meets the following conditions:
    - ✓ It is divisible by 4 **and** not divisible by 100,
      or
    - ✓ It is divisible by 400.

Ex extra

- **Program output**

```
[ohyong@cse ~/cp/Lab5]$ vi ex5_extra.c
[ohyong@cse ~/cp/Lab5]$ gcc ex5_extra.c -o ex5_extra
[ohyong@cse ~/cp/Lab5]$ ./ex5_extra
Enter a year: 2024
2024 is a leap year.

[ohyong@cse ~/cp/Lab5]$ ./ex5_extra
Enter a year: 2100
2100 is a common year.

[ohyong@cse ~/cp/Lab5]$ ./ex5_extra
Enter a year: 2000
2000 is a leap year.

[ohyong@cse ~/cp/Lab5]$ ./ex5_extra
Enter a year: 2025
2025 is a common year.
```

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Submission

• **Submit to server**

Lab #   Class #

At the end of the Lab5, submit your C sources file by typing

~gs1401/bin/submit Lab5_5 ex5_3.c ex5_extra.c   // by Fri. 13:50

You may check that you have submitted your source code correctly by typing

~gs1401/bin/submit -check

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