

Computer Programming

Lab5

Apr. 11, 2025



Ex3

- Write a program that asks the user to input 10 values and outputs their sum. If a negative number is input, the values are not added.

- 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 a n1: 1.1
Enter a n2: 2.2
Enter a n3: 5.5
Enter a n4: 4.4
Enter a n5: -3.4
Enter a n6: -45.5
Enter a n7: 34.5
Enter a n8: -4.2
Enter a n9: -1000
Enter a n10: 12
Sum = 59.70
```

```
[ohyong@cse ~/cp/Lab5]$ ./ex5_3
Enter a n1: 1
Enter a n2: 2
Enter a n3: 3
Enter a n4: 4
Enter a n5: 5
Enter a n6: 6
Enter a n7: 7
Enter a n8: 8
Enter a n9: 9
Enter a n10: 10
Sum = 55.00
```

- 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.

- **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.
```

Submission

- **Submit to server**

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

`~gs1401/bin/submit Lab5_4 ex5_3.c ex5_extra.c // by Fri. 11:50`

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

`~gs1401/bin/submit -check`