

CMSC 131 Introduction to Computer Organization and Machine-Level Programming

Exercise 9: I/O System Services

Set A

Write a program that simulates an arithmetic calculator with the operations (1) addition, (2) subtraction, and (3) integer division for two two-digit unsigned numbers. The program should run until the user chooses (0) exit.

Sample run:

```
*****MENU*****
[1] Addition
[2] Subtraction
[3] Integer Division
[0] Exit
*****

Choice: 1
Enter a two-digit number: 90
Enter a two-digit number: 25
115

*****MENU*****
[1] Addition
[2] Subtraction
[3] Integer Division
[0] Exit
*****

Choice: 2
Enter a two-digit number: 45
Enter a two-digit number: 27
018

*****MENU*****
[1] Addition
[2] Subtraction
[3] Integer Division
[0] Exit
*****

Choice: 3
Enter a two-digit number: 99
Enter a two-digit number: 33
003
```

CMSC 131 Introduction to Computer Organization and Machine-Level Programming
Exercise 9: I/O System Services

```
*****MENU*****
```

```
[1] Addition
```

```
[2] Subtraction
```

```
[3] Integer Division
```

```
[0] Exit
```

```
*****
```

```
Choice: 0
```

Note: Assume that the answers are unsigned integers as well.