Fall2022 CS201 Lab4

September 26, 2022

1 Submission

Please submit your zipped files to Blackboard. Name your zipped file `FirstName_LastName_Lab4.zip`. The wrong file name will have 20 deductions. Your zipped file must contain a lab report (xx.pdf) and the java source files (xx.java). In the report, you need to **answer each question and give the screenshot of console result for each question**. Submit your java source file of each question separately. The missing of report will result in 50 deductions.

2 Exercise

1. In the **switch** example of our lecture, to execute the **calcu()** method and achieve the functionality successfully, we write **calcu()** with the **System.out.println()** and invoke this method directly in the main method by writing **calcu()**. Now try to rewrite the **calcu()** method, then it can be invoked in the main method by writing **System.out.println(calcu())**, and print the result of your input "Operator".

2. Each Month has different days, like 31 days for January and 28 days for February (don't consider leap year). Please write a client program that will prompt the user to enter the month in format number or month's full name, like 1 or January. Then print the corresponding number of days. Also, if their input is incorrect, it will prompt to enter valid month. Your output will print following scenarios:

```
Please enter you month:
February
February has 28 days
****************************
Please enter you month:
2
2 has 28 days
****************************
Please enter you month:
Februaaa
Please enter a valid month
```

3. Please use **while loop** and **if selection** to output all integers which can be divided by 7 from 1 to 200. Print these integers and 4 integers in each line. Here is the example output of integers divisible by 5.

```
These integers can be divided by 5:
5 10 15 20
25 30 35 40
45 50 55 60
65 70 75 80
85 90 95 100
105 110 115 120
125 130 135 140
145 150 155 160
165 170 175 180
185 190 195 200
```