

Lab 04 - Functions & Selection Statements

Direction: Submit your typed work(s) as an upload(s) to the Labs directory of your GitHub repository or Dropbox, or in your correct Lab04 google classroom assignment. Each part should be a separate files. The files named should be "lab4A.txt" and "lab4B.cpp" respectively.

Part A: In class

Your objective is to write ONLY the line number and the entire corrected line for each line that has a **syntax error** in the code segment below.

```
01 | void G(int a,int& b)
02 | {
03 |     int r = (a - b) * (a * a + a * b + b * b);
04 |     b = r
05 |     return;
06 | }
07 |
08 | int main()
09 | {
10 |     int s;
11 |
12 |     cout << 'Enter a number: ';
13 |     cin >> s;
14 |
15 |     G(s,3);
16 |     cout << s << '\n';
17 |     G(4,s);
18 |     cout << s << "\n";
19 |     Return 0;
20 | }
```

Part B: Take home

Your objective is to write a complete cpp program that defines the following functions and calls them in the main function.

- ☐ A void function named **CapLock()** that takes a char reference parameter. If the parameter is a letter, the function assigns the parameter its opposite case (uppercase becomes lowercase and vica versa); otherwise, it does nothing.
- ☐ An int function named **DaysOfAMonth()** that takes two int parameters named *mn* and *yr* respectively. If *mn* represent a valid month number (1 - 12) and *yr* is positive, the function returns the number of days in the month represented by *mn* of the year represented by *yr*; otherwise, it returns 0.
- ☐ A double function named **Median()** that takes four double parameters. It returns median of the parameters.