



## **FLEX Assignment – Due Date: Sunday, May 22, 2022**

1. Write a FLEX program that will produce a program to count characters and lines in a text file and reports counts.
2. Write a FLEX program that will produce a program to convert all uppercase letters in a text file to lower case.
3. Write a FLEX program that will produce a program to extract all numbers in a text file and print its reversed. For example: 123 will be 321.
4. Write a FLEX program that will produce a program to accept only strings of digits that represent even numbers. The output should state if the input is accepted, odd number or not a number.
5. Write a FLEX program that will produce a program to check for balanced parentheses in an arithmetic expression.

To test your program, store the following arithmetic expressions in a text file:

$((a+b*(b+c))$

$(a*(b+c))$

$((a/c)*b)+(b-(-c)))$

$(a+b)-(c*(d-e))$

If the name of your text file is Sample.text, then the corresponding output will be as shown in the following screenshot:

```
Enter the name of file
Sampletext.txt
a+b*b+c
Error at line N0 1: It has extra or missing parentheses.
a*b+c
Expression at line No 2 has balanced parentheses.

a/c*b+b--c
Error at line N0 3: It has extra or missing parentheses.
a+b-c*d-e
Expression at line No 4 has balanced parentheses.

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Process exited after 69.21 seconds with return value 0
Press any key to continue . . .
```