**Calculator Project Overview**

* Uses character arrays (strings) to store input from the keypad. The keys pressed are read as chars and are stored in kbuf. The operation created by the input is stored in oper. Flags are used to track the program state (ex. modes) and for error prevention

**Features:**

* **Perform all standard operations (addition, multiplication, ect.)**
* **Shift mode to provide additional key functions:**

Standard Shift

1 2 3 PF + - % (

4 5 6 E 🡺 \* / ^ )

7 8 9 DEL 🡸 < > S CLR

. 0 (-) SHFT MS MR EQ SHFT

PF : Postfix mode on/off < : Scroll left MS: Memory set (save)

E : Exponent > : Scroll right MR : Memory recall

DEL : Delete S: Space EQ : Equals (enter)

SHFT: Shift on CLR: Clear SHFT: Shift off

* **Display both operation and input:**



* Handle outputs that exceed the max display length
* Scroll left or right when output is larger than display
* Use infix/postfix notation as input (ex 5+5 vs. 5 5 +)
* Handle multiple digit numbers and decimals
* Handle Negative signs and parenthesis
* Save and recall numbers
* Delete key that removes a char from the keypad buffer
* Replace operators in the operation string
* Use exponential form for input and output

