## EE 2905

Dr. Johnson

## Program 4

## No capabilities beyond those discussed in class or in the notes are allowed

## Repeat Program 2 using functions with pointers

Use the following function prototypes (declarations)

```
// function prototypes
void get_vals(float * value_l, float * value_r);
void get_op(char * op);
uint8_t check_op(char op);
void calc_result(float val_l, float val_r, char oper, float * result);
void print_results(float val_l, float val_r, char oper, float result);
```

Turn in your code, and screenshots for values of

| 3.3 | 2.1 | / |
| :--- | :--- | :--- |
| 2.3 | 3.3 | * |
| 4.6 | 6.6 | + |
| 4.6 | 1.6 | - |
| 6.6 | 5.2 | \% |




End up with something like this - check your values!

```
COM5 - Tera Term VT
File Edit Setup Control Window Help
program_4
Ising Mbed OS version 6.10.0
Welcome to my calculator program (using functions and pointers)
Please enter a value for the left side of the operation 3.3
Please enter a value for the right side of the operation 2.1
Please enter the operation requested <+ - * />: /
3.300000 / 2.100000 = 1.571429
Please enter a value for the left side of the operation 2.3
Please enter a value for the right side of the operation 3.3
Please enter the operation requested (+ - * /): *
2.300000 * 3.300000 = 7.590000
Please enter a value for the left side of the operation 4.6
Please enter a value for the right side of the operation 6.6
Please enter the operation requested <+ - * />: +
4.600000 + 6.600000 = 11.200000
Please enter a value for the left side of the operation 4.6
Please enter a value for the right side of the operation 1.6
Please enter the operation requested (+ - * /): -
```



```
Please enter a value for the left side of the operation 6.6
Please enter a value for the right side of the operation 5.2
Please enter the operation requested < + - * >):%
illegal operation
Please enter a value for the left side of the operation
```

$-\quad \square$

