Problem 6

- Makefile

```
CC= gcc
CFLAG= -I.

EXE= MatrixCalc
$(EXE): subtraction,o multiplication,o division,o main,o
$(CC) -o $(EXE) subtraction,o multiplication,o division,o main,o
subtraction,o: subtraction,c subtraction,h
$(CC) -c subtraction,c $(CFLAG)
multiplication,o: multiplication,c multiplication,h
$(CC) -c multiplication,c $(CFLAG)
division,o: division,c division,h
$(CC) -c division,c $(CFLAG)
main,o: main,c subtraction,h multiplication,h division,h
$(CC) -c main,c $(CFLAG)
clean:
rm -f *.o $(EXE)
```

Execution

```
root@os:/home/ubuntu/OpenSourcePython/Report2/Problem6# 1s
division.c main.c
                     multiplication.c subtraction.c
division.h Makefile multiplication.h subtraction.h
root@os:/home/ubuntu/OpenSourcePython/Report2/Problem6# make
gcc -c subtraction.c -l.
gcc -c multiplication.c -l.
gcc -c division.c -l.
gcc -c main.c -l.
gcc -o MatrixCalc subtraction.o multiplication.o division.o main.o
root@os:/home/ubuntu/OpenSourcePython/Report2/Problem6# ./MatrixCalc
A's row : 2
A's column : 2
>> input Matrix A
>> 2 4
>> 3 5
B's row : 2
B's column : 2
>> input Matrix B
>> 3 3
>> 8 6
1. Subtraction / 2. Multiplication / 3. Element-wise Division / 0. Quit
>> 1
result
-1
        1
1. Subtraction / 2. Multiplication / 3. Element-wise Division / 0. Quit
>> 2
result
38
        30
49
        39
1. Subtraction / 2. Multiplication / 3. Element-wise Division / 0. Quit
>> 3
result
a
        1
1. Subtraction / 2. Multiplication / 3. Element-wise Division / 0. Quit
>> 0
```