Exercise 1

```
#include <stdio.h>
#include <stdio.h>
clang-7 -pthread -lm -o main main.c

#include <stdio.h
#inclu
```

Exercise 2

```
main.c

#include <stdio.h>
#define SQUARE(x) x*x

int main(){

int num = 20;
printf("Square of num : %d\n", SQUARE(num));
printf("Square of -5 : %d\n", SQUARE(-5));
printf("Square of 2.5: %f\n", SQUARE(2.5));
return 0;

Console

Shell

* clang-7 -pthread -lm -o main main.c
} ./main
Square of num : 400
Square of -5 : 25
Square of 2.5: 6.250000

* Interpretation
** Square of 2.5: 6.250000
** Interpretation
** Inte
```

Exercise 3

Exercise 4

```
Shell
main.c
     #include <stdio.h>
                                                                    ~/test$ ls
     #define ADD 1
                                                                    main main.c
     #define MIN 0
                                                                    ~/test$ ./main
     int main () {
                                                                    enter two integers: 2 3
                                                                    2 + 3 = 5
         int num1, num2;
                                                                    ~/test$
         printf("enter two integers: ");
         scanf("%d %d", &num1, &num2);
         #if ADD
             printf("%d + %d = %d\n", num1, num2, num1+num2);
         #endif
         #if MIN
             printf("%d - %d = %d\n", num1, num2, num1-num2);
         #endif
         return 0;
```

Exercise 5

```
main.c ×
                                                                  Console
                                                                  clang-7 -pthread -lm -o main main.c
    #define HIT_NUM 7
                                                                  ./main
    #define _CRT_SECURE_NO_WARNINGS
                                                             HIT NUM is 7
    int main(){
                                                                  ⊁ [[
        #if HIT_NUM == 5
            puts("HIT_NUM is 5");
        #elif HIT_NUM == 6
            puts("HIT_NUM is 6");
        #elif HIT_NUM == 7
            puts("HIT_NUM is 7");
                                                             puts("HIT_NUM is not 5, 6, and 7");
        #endif
        return 0;
```

Exercise 6

```
8
                                                                      Console
main.c
                                                                     clang-7 -pthread -lm -o main main.c
     #define MY_MAX(x,y) ((x)>(y) ? x : y)
                                                                     ./main
     #define MY_MIN(x,y) ((x)\langle (y) \rangle ? x : y)
                                                                     enter two integers: 1 2
     int main () {
                                                                     large: 2
                                                                     small: 1
         int num1, num2;
                                                                     ٠.
         printf("enter two integers: ");
         scanf("%d %d", &num1, &num2);
         printf ("large : %d \n", MY_MAX(num1,num2));
         printf("small : %d \n", MY_MIN(num1,num2));
         return 0;
```

Exercise 7

Exercise 8

```
#include <stdio.h>
int main () {
    int num1, num2;
    scanf("%d %d", &num1, &num2);
    printf("%d + %d = %d\n", num1, num2, num1+num2);
    printf("%d - %d = %d\n", num1, num2, num1+num2);
    printf("%d * %d = %d\n", num1, num2, num1*num2);
    printf("%d / %d = %d\n", num1, num2, num1/num2);
    printf("%d %% %d = %d\n", num1, num2, num1%num2);
}
```

Exercise 9

Exercise 10