

Function definitions and our main function can be in the same file, or functions can be found in a different file called the header file. However, in order to use such a file, you need to add this header file (.h) to the program with the #include statement in the file containing the main function. Below is a simple example of defining a function and using it in the header file. This program prints the sum and difference of two numbers received from the user. All you have to do to run this program is to put the main.c and func.h files in the same folder, compile your program with the gcc main.c command, and then run your program by ./a.out.

```
//main.c
#include<stdio.h>
#include "function.h"
int main()
{
    int num1, num2;
    scanf("%d%d", &num1, &num2);
    printf("Sum=%d Diff=%d\n", sum(num1, num2), diff(num1, num2));
    return 0;
}
```

```
// function.h
int sum(int num1, int num2)
{
    return num1+num2;
}

int diff(int num1, int num2)
{
    return num1-num2;
}
```