

Function definitions and main function can be in the same file, or functions can be in a different file called header file. However, in order to use such a file, you need to add the .h extension header file 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 on the screen. To run this program, all you have to do is put the main.c and function.h files in the same folder, compile your program with the gcc main.c command and then run your program by saying ./a.out.

```
//main.c
#include<stdio.h>
#include "function.h"
int main()
{
    int number1, number2;
    scanf("%d%d", &number1, &number2);
    printf("Sum=%d Difference=%d\n", add(number1, number2),
subtract(number1, number2));
    return 0;
}
```

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

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