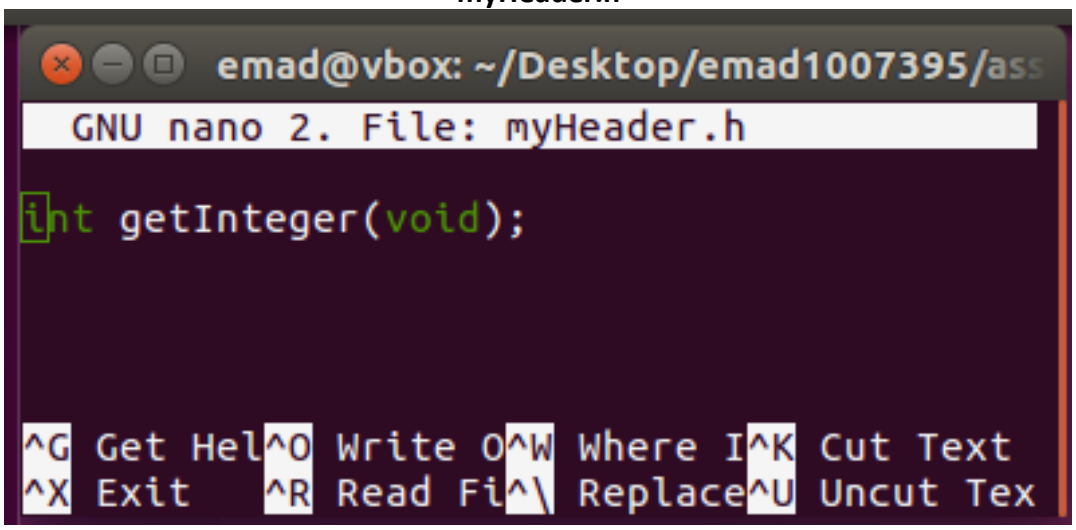
Q1

Create a function in (.c) file and create its header in (.h) file, in a new separate (.c) file create your main program, then use separate-compilation to compile the program (i.e. create a MakeFile).

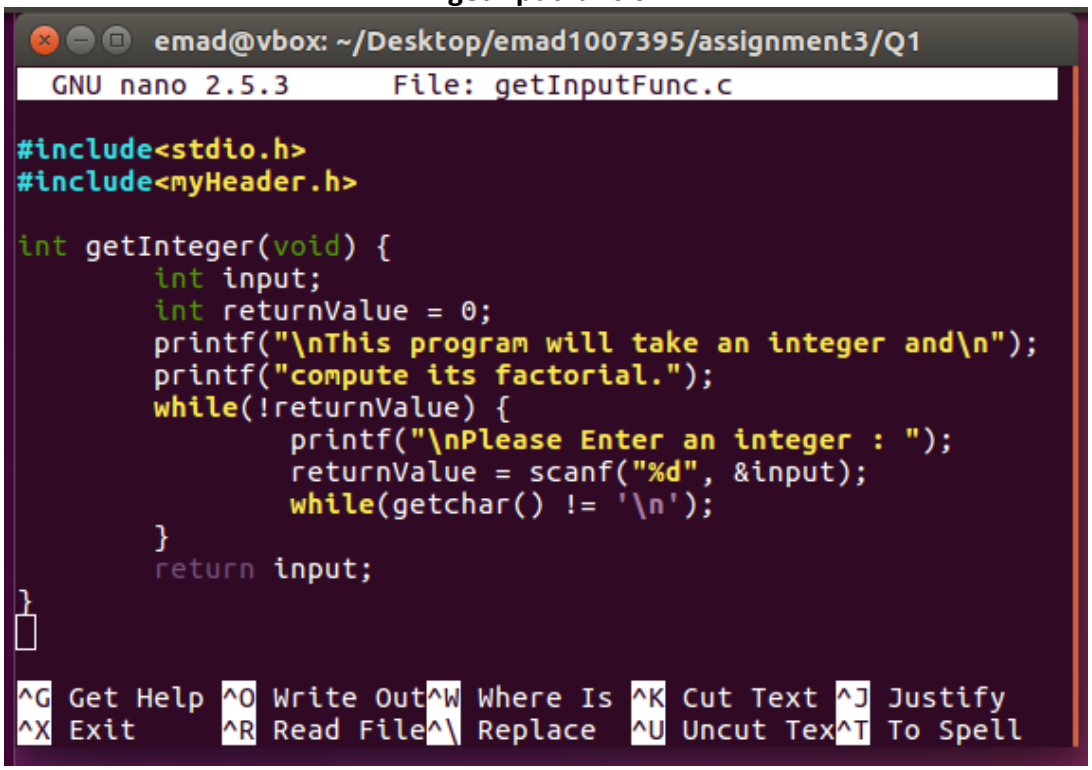
- Function: ask the user for an integer and check for errors entered.
- Main Program: compute factorial and print the results.

Code

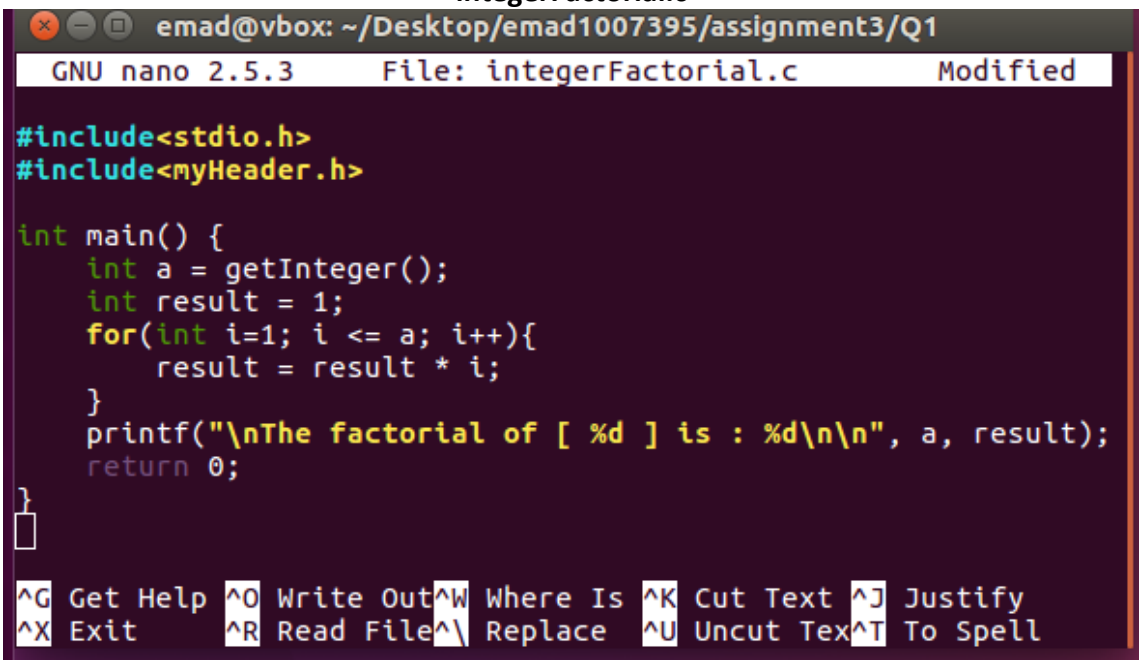
myHeader.h



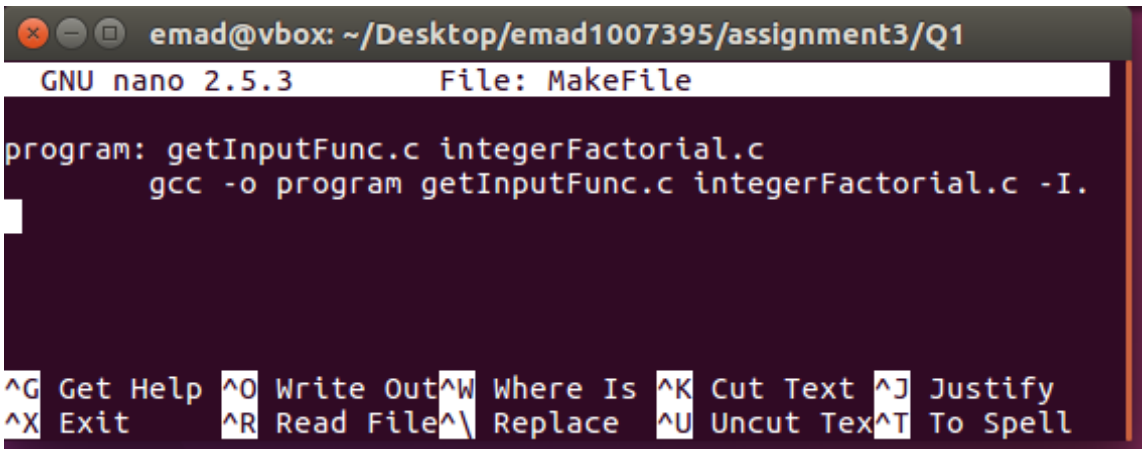
getInputFunc.c



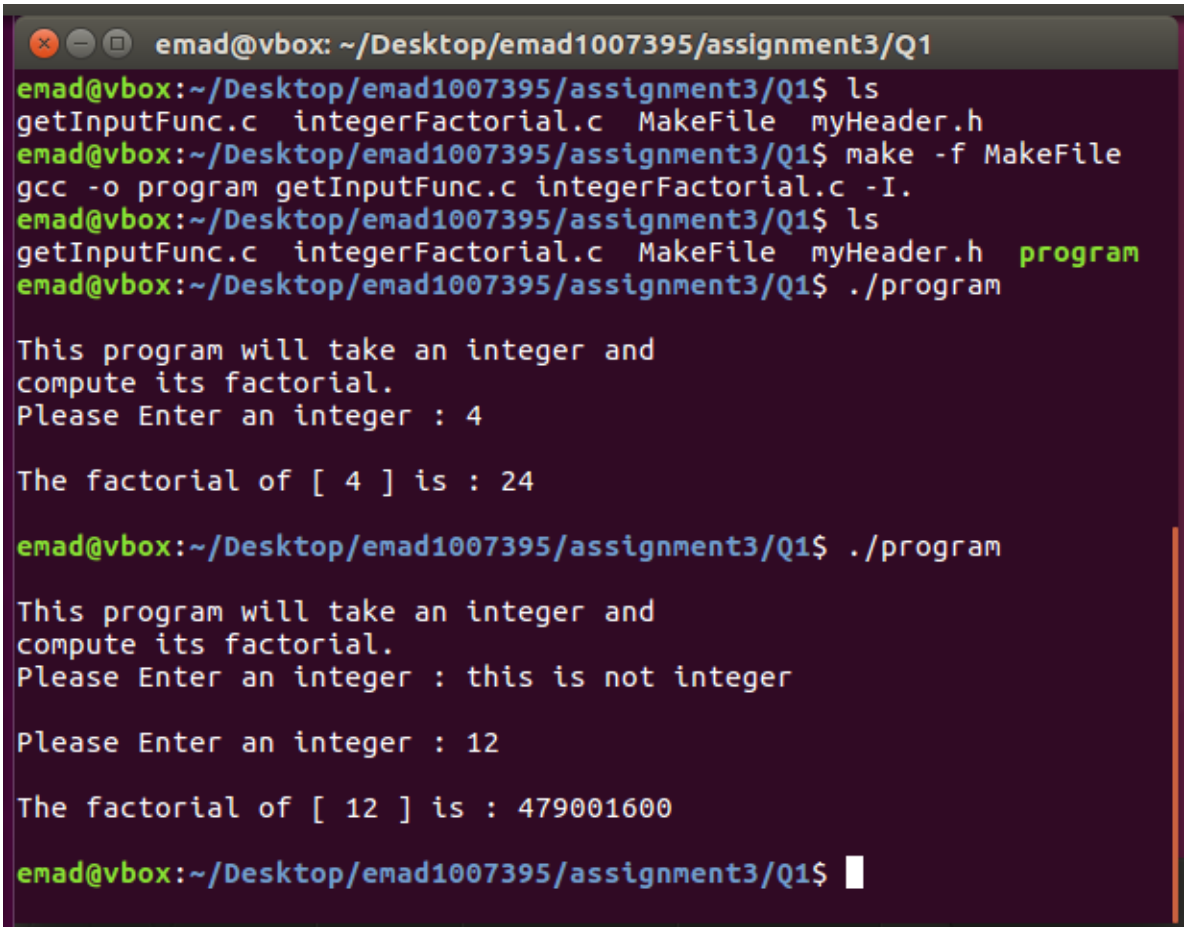
integerFactorial.c



MakeFile



Screenshot


emad@vbox: ~/Desktop/emad1007395/assignment3/Q1
emad@vbox:~/Desktop/emad1007395/assignment3/Q1$ ls
getInputFunc.c integerFactorial.c MakeFile myHeader.h
emad@vbox:~/Desktop/emad1007395/assignment3/Q1$ make -f MakeFile
gcc -o program getInputFunc.c integerFactorial.c -I.
emad@vbox:~/Desktop/emad1007395/assignment3/Q1$ ls
getInputFunc.c integerFactorial.c MakeFile myHeader.h program
emad@vbox:~/Desktop/emad1007395/assignment3/Q1$ ./program
This program will take an integer and
compute its factorial.
Please Enter an integer : 4
The factorial of [4] is : 24
emad@vbox:~/Desktop/emad1007395/assignment3/Q1$ ./program
This program will take an integer and
compute its factorial.
Please Enter an integer : this is not integer
Please Enter an integer : 12
The factorial of [12] is : 479001600
emad@vbox:~/Desktop/emad1007395/assignment3/Q1$