Dinesh Thapa   ID: 920879242
Github: dthapa770   CSC415 Operating Systems

Assignment 1 – Command Line Arguments

Description:
This assignment is to write a C program that accepts arguments via the command line and then displays each of those arguments to the terminal along with how many arguments there are.
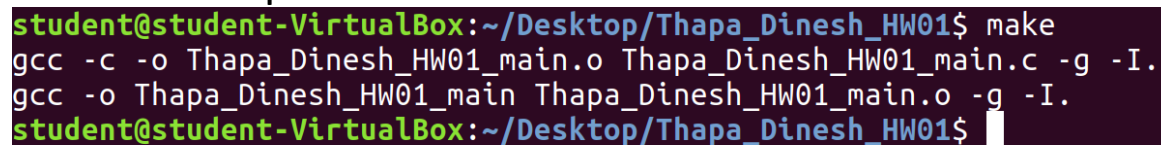
Approach / What I Did:
After I installed Virtual Box and the Ubuntu Virtual machine, I had a pre-installed VS code IDE to write my C program. To pass the command line argument, I used main function to pass my argument since command line argument are handled using main() function. The parameter passed into main function are argc, numbers of argument passed and argv[], a pointer array which points to each argument passed to the program.
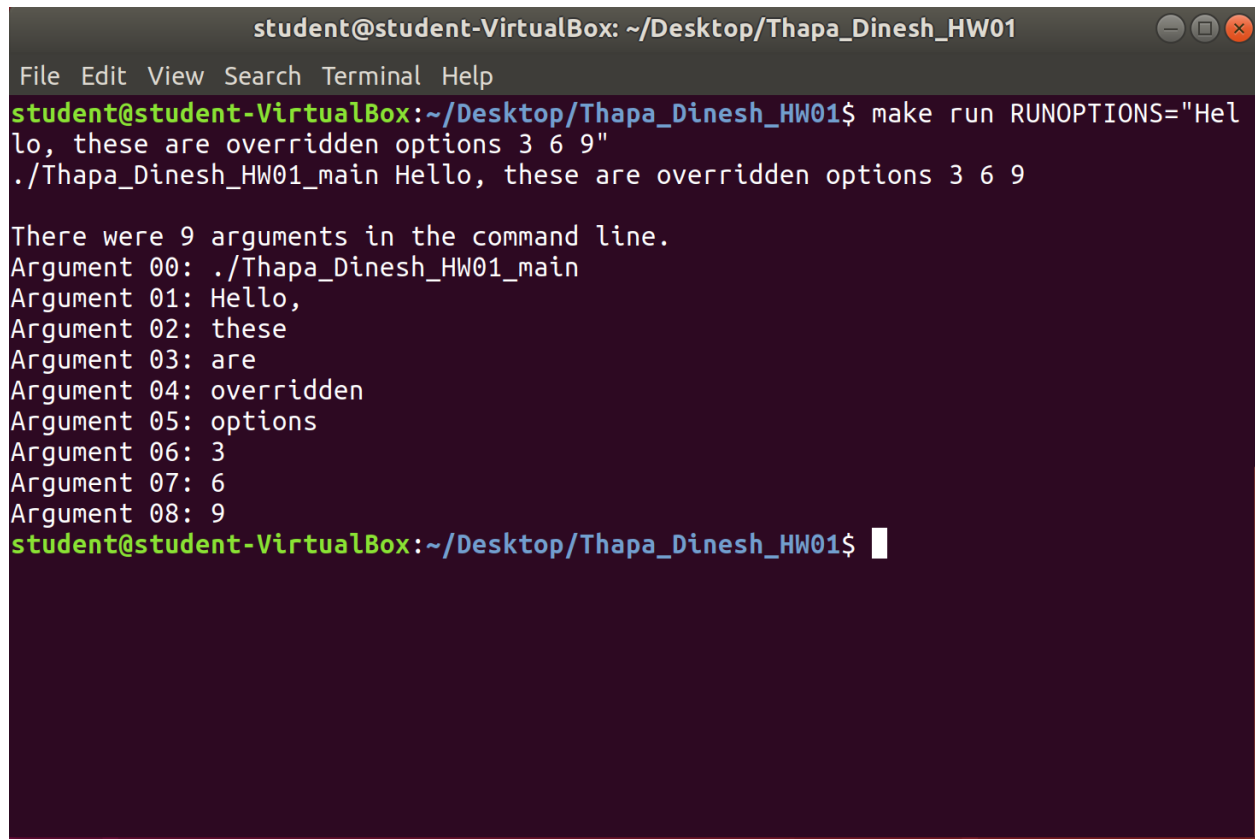
Issues and Resolutions:

I didn't come up with any issue, it was a simple program that only used printf and for loop to come up with solution like a output format provided to us.

Screen shot of compilation:

```
student@student-VirtualBox:~/Desktop/Thapa_Dinesh_HW01$ make
gcc -c -o Thapa_Dinesh_HW01_main.o Thapa_Dinesh_HW01_main.c -g -I.
gcc -o Thapa_Dinesh_HW01_main Thapa_Dinesh_HW01_main.o -g -I.
student@student-VirtualBox:~/Desktop/Thapa_Dinesh_HW01$
```

Screen shot(s) of the execution of the program:

```
student@student-VirtualBox: ~/Desktop/Thapa_Dinesh_HW01

File  Edit  View  Search  Terminal  Help

student@student-VirtualBox:~/Desktop/Thapa_Dinesh_HW01$ make run RUNOPTIONS="Hel
lo, these are overridden options 3 6 9"
./Thapa_Dinesh_HW01_main Hello, these are overridden options 3 6 9

There were 9 arguments in the command line.
Argument 00: ./Thapa_Dinesh_HW01_main
Argument 01: Hello,
Argument 02: these
Argument 03: are
Argument 04: overridden
Argument 05: options
Argument 06: 3
Argument 07: 6
Argument 08: 9
student@student-VirtualBox:~/Desktop/Thapa_Dinesh_HW01$
```