**Description**: This program displays the number of arguments from the command line and lists each one on the console.

What I did: I wrote a program written in C using some functions such as argc and argv which are argument count and argument vector respectively. I used them to count the number of arguments and to store each argument in a separate vector or array. Then I added print statements running on a for loop with counter as number of arguments. This prints each argument on command line and the first argument is the file name itself.

**Issues I had**: There were some issues which I had while programming such as some Virtual Machine obstacles and pushing the files to GitHub. I had to make multiple commits and changes because I kept on adding minor edits. Other than that, it was simple enough after watching the C Tutorial videos.

**Compilation**: I installed 'make' in the VM and used '\$make' to create an object file and compile the program.

```
student@student-VirtualBox: ~/Desktop/assignment-1---command-line-arguments-develo... 🦱 📵 🌘
File Edit View Search Terminal Help
student@student-VirtualBox:~/Desktop/assignment-1---command-line-arguments-devel
oper-soni$ ls
LICENSE Makefile README.md soni dev HW1 main.c
student@student-VirtualBox:~/Desktop/assignment-1---command-line-arguments-devel
oper-soni$ make
gcc -c -o soni dev HW1 main.o soni dev HW1 main.c -g -I.
gcc -o soni_dev_HW1_main soni_dev_HW1_main.o -g -I.
student@student-VirtualBox:~/Desktop/assignment-1---command-line-arguments-devel
oper-soniS ls
                             soni_dev_HW1_main.c
LICENSE
          README.md
Makefile soni_dev_HW1_main soni_dev_HW1_main.o
student@student-VirtualBox:~/Desktop/assignment-1---command-line-arguments-devel
oper-soni$
```

**Execution**: To execute the program, I used \$make run. And to execute with RUNOPTIONS, \$make run RUNOPTIONS="<arguments>".

```
student@student-VirtualBox: ~/Desktop/assignment-1---command-line-arguments-developer-soni
File Edit View Search Terminal Help
-soni$ make run
./soni_dev_HW1_main Hello World
There were 3 arguments on the command line.
                ./soni_dev_HW1_main
Argument 0:
Argument 1:
                Hello
Argument 2:
                World
student@student-VirtualBox:~/Desktop/assignment-1---command-line-arguments-developer
-soni$ make run RUNOPTIONS="Hello world, this is my world in Virtual Machine."
./soni_dev_HW1_main_Hello_world, this is my_world_in_Virtual_Machine.
There were 10 arguments on the command line.
Argument 0:
                ./soni_dev_HW1_main
Argument 1:
                Hello
Argument 2:
                world,
Argument 3:
                this
Argument 4:
                is
Argument 5:
                my
Argument 6:
                world
Argument 7:
                in
Argument 8:
                Virtual
Argument 9:
                Machine.
student@student-VirtualBox:~/Desktop/assignment-1---command-line-arguments-developer
-soni$
```