CND Homework 3

Rajat Vij

To do this homework I needed to call another program from my program and get its return value on console standard output. For that I created and a simple python program that takes various numbers of string argument and returns the number of arguments given.

I used argparse module in both programs to get the user input from commandline arguments. I used nargs to input multiple string arguments. I also specified type as string to make sure all input arguments are string only.

To create a program which calls another program and returns its value on standard console output. I used subprocess module to call the command to the other program. We give filepath of the other program along with the string arguments that needs to be passed to the other program as user input to this program.

Now when we call our program, it returns the output of the program whose filepath we gave.

Explanation of the methods:

Program 1 – cnd3.py

Execute\_program – this returns programstdout method

Programstdout – this calls the command to run the program specified in the filepath with the arguments using subprocess module.

Program 2 – cnd3\_1.py

Argmethod – this returns the number of arguments passed to the program via commandline.

NOTE: I used sys.stdout.write instead of print as I was a bit confused about the assignment but I think there is not much difference between both. I was checking absolute path of the program using os.getcwd() before, but then I removed that functionality as it is not necessary for the assignment as previously I was just checking the absolute path of the input file and was not giving absolute path for the file.