

1. Using command-line arguments involves the sys module. Review the docs for this module and using the information in there write a short program that when run from the command-line reports what operating system platform is being used.

```
C:\Users\Dell>cd %USERPROFILE%\Desktop  
  
C:\Users\Dell\Desktop>python3 os_platform_report.py --platform  
Operating System Platform: win32
```

2. Write a program that, when run from the command line, reports how many arguments were provided. (Remember that the program name itself is not an argument).

```
C:\Users\Dell\Desktop>notepad count.py  
  
C:\Users\Dell\Desktop>python3 count.py 1 2 3 4  
Number of arguments provided: 4
```

3. Write a program that takes a bunch of command-line arguments, and then prints out the shortest. If there is more than one of the shortest length, any will do.
Hint: Don't overthink this. A good way to find the shortest is just to sort them.

```
C:\Users\Dell>cd %USERPROFILE%\Desktop  
  
C:\Users\Dell\Desktop>notepad shortest_argument.py  
  
C:\Users\Dell\Desktop>python shortest_argument.py program computing language  
program
```

4. Write a program that takes a URL as a command-line argument and reports whether or not there is a working website at that address.

```
C:\Users\Dell>cd %USERPROFILE%\Desktop  
  
C:\Users\Dell\Desktop>notepad check_website.py  
  
C:\Users\Dell\Desktop>python check_website.py https://www.example.com  
Website https://www.example.com is working
```

5. Last week you wrote a program that processed a collection of temperature readings entered by the user and displayed the maximum, minimum, and mean. Create a version of that program that takes the values from the command-line instead. Be sure to handle the case where no arguments are provided!

```
C:\Users\Dell>cd %USERPROFILE%\Desktop  
  
C:\Users\Dell\Desktop>python3 temperatures.py 22c 17c 20c 18c  
Maximum Temperature: 71.60F  
Minimum Temperature: 62.60F  
Mean Temperature: 66.65F
```