Command Line Arguments

Python Command line arguments are input parameters passed to the script when executing them. Almost all programming language provide support for command line arguments. Then we also have command line options to set some specific options for the program.

There are many options to read python command line arguments. The three most common ones are:

1. Python sys.argv
2. Python getopt module
3. Python argparse module

Python sys module

- Python sys module stores the command line arguments into a list, we can access it using sys.argv.
- This is very useful and simple way to read command line arguments as String.
- argv is considered as array of vectors which contains command line arguments.
- As it is an array its index starts from 0.
- argv[0] contains name of our python application and actual command line arguments starts from index 1.

Consider below application which demonstrates concept of Command Line Arguments

```
import sys

print("---- Marvellous Infosystems by Piyush Khairnar-----")

print("Demonstration of Command Line Arguments")

print("Application name : " + sys.argv[0])

x = int(sys.argv[1])

y = int(sys.argv[2])

z = x + y

print(z)
```

Output of above application

```
● ● ●                          Python_Programs — -bash — 79×24
MacBook-Pro-de-MARVELLOUS:Python_Programs marvellous$ python CommanndLine.py 10
 11
---- Marvellous Infosystems by Piyush Khairnar-----
Demonstration of Command Line Arguments
21
MacBook-Pro-de-MARVELLOUS:Python_Programs marvellous$ █
```

Run the above application as

python CommandLine.py 10 11