NOTE: As mentioned above, first argument is always script name and it is also being counted in number of arguments.

Parsing Command-Line Arguments

Python provided a **getopt** module that helps you parse command-line options and arguments. This module provides two functions and an exception to enable command line argument parsing.

getopt.getopt method

This method parses command line options and parameter list. Following is simple syntax for this method:

```
getopt.getopt(args, options[, long_options])
```

Here is the detail of the parameters:

- **args**: This is the argument list to be parsed.
- **options**: This is the string of option letters that the script wants to recognize, with options that require an argument should be followed by a colon (:).
- **long_options**: This is optional parameter and if specified, must be a list of strings with the names of the long options, which should be supported. Long options, which require an argument should be followed by an equal sign ('='). To accept only long options, options should be an empty string.
- This method returns value consisting of two elements: the first is a list of **(option, value)** pairs. The second is the list of program arguments left after the option list was stripped.
- Each option-and-value pair returned has the option as its first element, prefixed with a hyphen for short options (e.g., '-x') or two hyphens for long options (e.g., '--long-option').

Exception getopt.GetoptError:

This is raised when an unrecognized option is found in the argument list or when an option requiring an argument is given none.

The argument to the exception is a string indicating the cause of the error. The attributes **msg** and **opt** give the error message and related option.

