Book:**Python crash course: a hands-on, project-based introduction to programming / by Eric Matthes.**

The language 'Python' is named after Monty Python, not the snake. Guido van Rossum, the creator of Python, chose the name because he was a fan of "Monty Python's Flying Circus," a popular comedy show, and he wanted a name that was short, unique, and slightly mysterious.

**Why Python?**

* Python is an incredibly efficient language: your programs will do more in fewer lines of code than many other languages would require.
* Python’s syntax will also help you write “clean” code.
* Python is used for many purposes: to make games, build web applications, solve business problems, and develop internal tools at all kinds of interesting companies. Python is also used heavily in scientific fields for academic research and applied work.

A **method** is an action that Python can perform on a piece of data. The dot (.) after name in name.title() tells Python to make the title() method act on the variable name. Every method is followed by a set of parentheses, because methods often need additional information to do their work.

* **Python** is a cross-platform programming language, which means it runs on all the major operating systems.
* In Python, the hash mark (#) indicates a comment.
* Python comes with an interpreter that runs in a terminal window, allowing you to try bits of Python without having to save and run an entire program.
* A **list** is a collection of items in a particular order.
* Python refers to values that cannot change as immutable, and an immutable list is called a **tuple.**
* A **tuple** looks just like a list except you use parentheses instead of square brackets.
* The **input()** function pauses your program and waits for the user to enter some text.
* A **module** is a file ending in .py that contains the code you want to import into your Functions.
* The Zen of Python:

*>>> import this*

*The Zen of Python, by Tim Peters*

*Beautiful is better than ugly.*

**General Points:**

* It’s a good habit to keep an “ideas” notebook that you can refer to whenever you want to start a new project.
* It’s a good idea to make the name of your list plural, such as letters, digits, or names.