

A list of learning objectives covering one week of full-time learning in the computer science topic: Python.

Day	Learning Objectives
Day 1	Investigate why Python is a useful language for software engineers Categorize the advantages and disadvantages of using Python Successfully download and install Python and to learn version types and their differences Relate where to find documentation on Python and how to navigate the documentation Explain the fundamentals of writing Python scripts Learn to use the interpreter and interact with it Explain how to run simple scripts
Day 2	Categorize Python elements such as variables, string types, math operators and expressions Sketch flow control and the importance of indentation Learn how to write if and elif statements Learn how to write while loops Paraphrase how to use lists, and how to use the for statement
Day 3	Analyze the different list operations and list methods Learn about tuples and practice writing them Learn how to open a text file and practice it Learn how to read a text file and write to a text file and practice it Learn how to create a dictionary and practice creating dictionaries Apply Dictionary Functions Fetch keys and values Delete elements and find elements Create Sets
Day 4	Identify proper syntax of function definitions Describe the difference between global and local variables State how to pass parameters and return values Handle errors with syntax Handle errors with try/except
Day 5	Use Modules and Packages Construct the Import statement Utilize the Standard Library Identify Python classes Write Object Oriented Programming Define classes Write Instance methods Learn what are Class methods and data