**String**

What is String in Python? How to create a string in Python?

How to access characters in a string?

How to change or delete a string?

Concatenation of Two or More Strings

Slice a String in Python

Iterating Through String

Membership (not in)

Search Functions

What are Common Python String Methods

**Lists**

Define Python list. How lists differ from Tuples.

What are the list operations?

What are the different ways to create a list?

How to slice a list in Python?

Show the membership operators used in list.

Can you use the addition assignment operator, +=, with two lists? What is the result?

Write a program to illustrate the heterogeneous list.

Illustrate List comprehension with suitable examples

**Tuple**

Define Python Tuple. How to instantiate a Tuple in Python?

What are the advantages of Tuple over list?

Classify the Python accessing elements in a Tuples.

Point out the methods used in Tuples

How a Tuple is iterated? Explain with an example.

Explain how Tuples are used as return values?

Write a program to check whether an element ‘y’ and ‘a’ belongs to the tuple My\_tuple = (‘p’,’y’,’t’,’h’,’o’,n’) nd after printing the result, delete the Tuple.

How to modify/update a tuple in Python?

How to remove/delete a tuple in Python?

**Dictionary**

Define dictionary with an example and How we can Create Dictionaries.

Explain the properties of Dictionary keys with examples.

Explain the operations for dynamically manipulating dictionaries.

What is the use of all(), any(), cmp() and sorted() in dictionary?

Explain Dictionary Operations

How to Access Elements and Append Elements in a Dictionary

How to Iterate Dictionary and remove Elements

What is Dictionary Comprehension?

**Set**

What is a Set in Python? [How to create a set?](https://www.programiz.com/python-programming/set#create)

How to instantiate and modify a Set in Python?

How to delete single or multiple elements from a set in Python?

What are Union operation and Intersection operation

Explain Difference and Symmetric Difference Operation on the Set

How to access data elements in a Set?

How to perform a membership test in a Set?

**Lambda Function**

What is lambda in Python? explain Syntax with an Example

How lambda function can be used with filter and map.

**Exception Handling**

What is difference between Error and Exception.

Explain with example the need for exception Handling

Discuss about try except block with example.

Catch multiple exceptions in one except block

Best practice for manually raising exceptions

Re-raising exceptions in Python

What is the use of [finally clause]

Explain with an example exceptions with arguments in Python.

**File Handling**

What does file handling mean?

Write a Python program to demonstrate the file I/O operations

Discuss with suitable examples

i) Close a File.

ii) Writing to a File.

Explain the commands used to read and write into a file with examples.

Tabulate the different modes for opening a file and explain the same.

How file can be open using with keyword.

Explain different “os” module function perform on file and directory