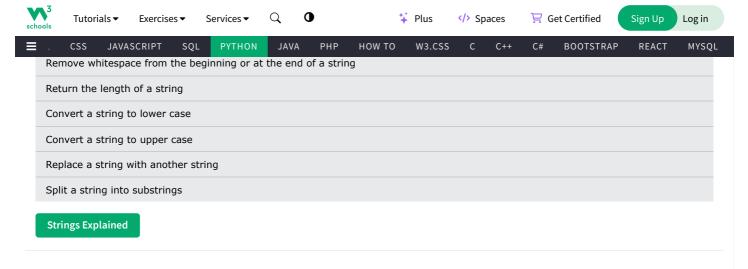


Python Strings

Casting Explained



Python Operators



Operators Explained

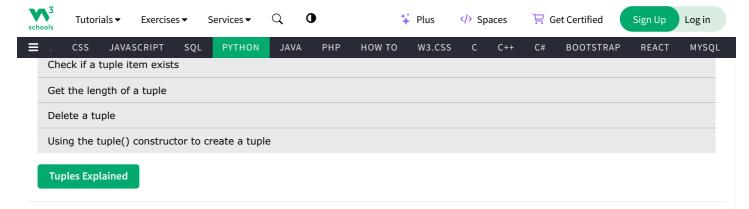
Python Lists



Python Tuples

Create a tuple

Access tuple items



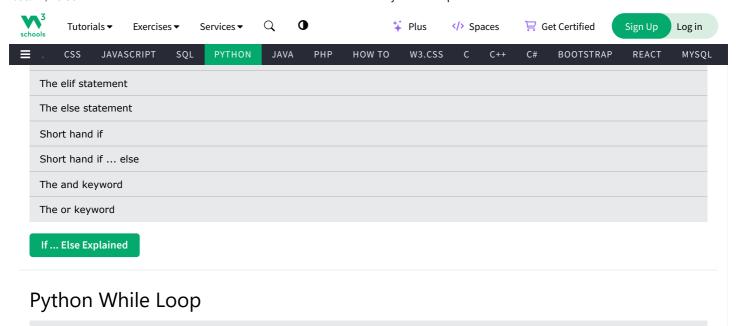
Python Sets



Sets Explained

Python Dictionaries

Create a dictionary
Access the items of a dictionary
Change the value of a specific item in a dictionary
Print all key names in a dictionary, one by one
Print all values in a dictionary, one by one
Using the values() function to return values of a dictionary
Loop through both keys an values, by using the items() function
Check if a key exists
Get the length of a dictionary
Add an item to a dictionary
Remove an item from a dictionary
Empty a dictionary
Using the dict() constructor to create a dictionary



Using the break statement in a while loop

Using the continue statement in a while loop

While Loop Explained

The while loop

Python For Loop

The for loop

Loop through a string

Using the break statement in a for loop

Using the continue statement in a for loop

Using the range() function in a for loop

Else in for loop

Nested for loop

For Loop Explained

Python Functions

Create and call a function

Function parameters

Default parameter value

Let a function return a value

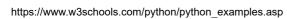
Recursion

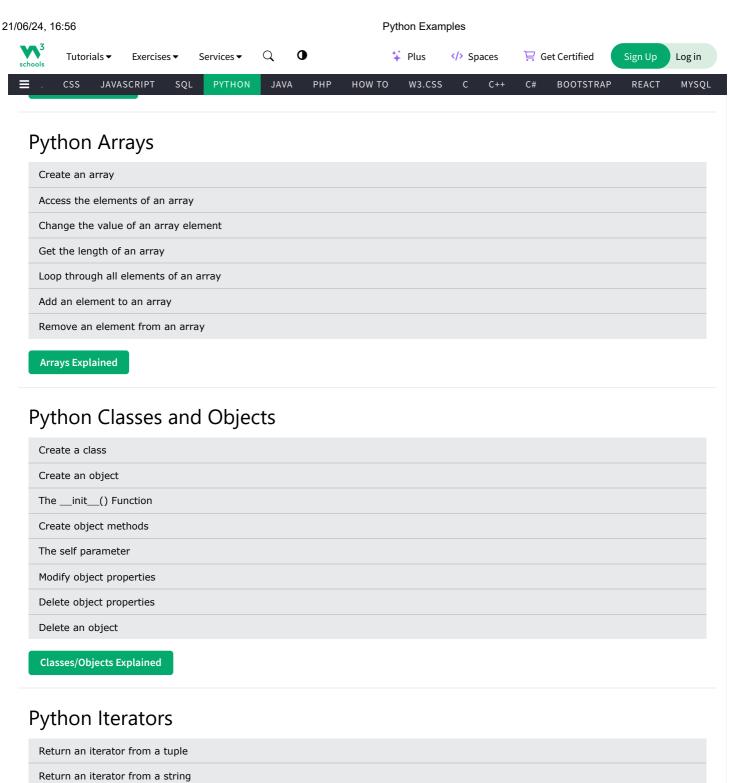
Functions Explained

Python Lambda

A lambda function that adds 10 to the number passed in as an argument $% \left(1\right) =\left(1\right) \left(1\right)$

A lambda function that multiplies argument a with argument b



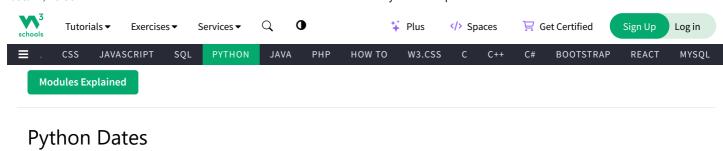


Loop through an iterator Create an iterator Stop iteration

Iterators Explained

Python Modules

Use a module Variables in module Re-naming a module Built-in modules



Import the datetime module and display the current date

Return the year and name of weekday

Create a date object

The strftime() Method

Dates Explained

Python Math

Find the lowest and highest value in an iterable

Return the absolute value of a number

Return the value of x to the power of y (x^y)

Return the square root of a number

Round a number upwards and downwards to its nearest integer

Return the value of PI

Math Explained

Python JSON

Convert from JSON to Python

Convert from Python to JSON

Convert Python objects into JSON strings

Convert a Python object containing all the legal data types

Use the indent parameter to define the numbers of indents

Use the separators parameter to change the default separator

Use the sort_keys parameter to specify if the result should be sorted or not

JSON Explained

Python RegEx

Search a string to see if it starts with "The" and ends with "Spain"

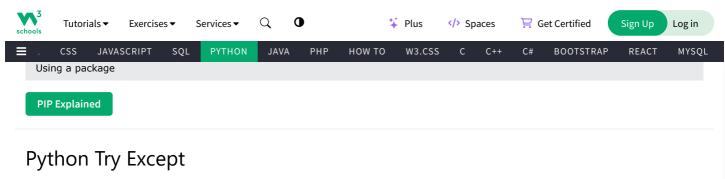
Using the findall() function

Using the search() function

Using the split() function

Using the sub() function

RegEx Explained



When an error occurs, print a message Many exceptions Use the else keyword to define a block of code to be executed if no errors were raised Use the finally block to execute code regardless if the try block raises an error or not

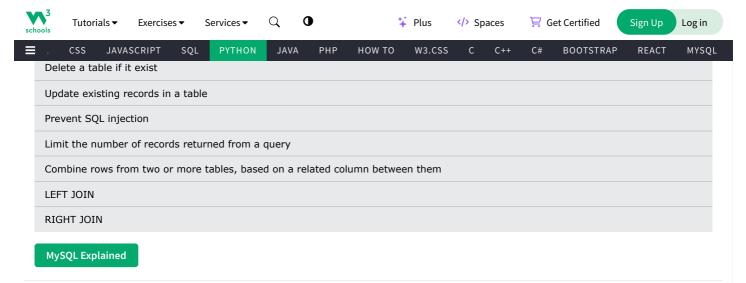
Try Except Explained

Python File Handling

Read a file Read only parts of a file Read one line of a file Loop through the lines of a file to read the whole file, line by line File Handling Explained

Python MySQL

Create a connection to a database Create a database in MySQL Check if a database exist Create a table Check if a table exist Create primary key when creating a table Insert a record in a table Insert multiple rows Get inserted ID Select all records from a table Select only some of the columns in a table Use the fetchone() method to fetch only one row in a table Select with a filter Wildcards characters Prevent SQL injection Sort the result of a table alphabetically Sort the result in a descending order (reverse alphabetically) Delete records from an existing table



Python MongoDB



MongoDB Explained





