https://yasirbhutta.github.io/

# **Built-in Functions**

The Python interpreter has a number of functions and types built into it that are always available.

## **Built-in Functions**

[need to add details]

#### See also:

• Built-in Functions - Python 3.12.1 documentation

### **Built-in Sequence Functions**

- #1 Python zip() Function
- #2 Python Zip Function: Handling Lists with Different Numbers of Elements
- Python Iterators and Iterables: How to Loop Over Lists and Iterators
- How to Iterate Over Tuples with the Enumerate Function
- Finding the maximum value in a list using a one-liner
- Find the sum of all even numbers between 1 and 100 using a one-liner
- Counting the number of occurrences of an element in a list

# **Key Terms**

True/False (Mark T for True and F for False)

Answer Key (True/False):

Multiple Choice (Select the best answer)

**Answer key (Mutiple Choice):** 

What is the output of the following Python code?

numbers = [10, 32, 98, 38, 47, 34] print(max(numbers))

```
- **A.** 10

- **B.** 32

- **C.** 98

- **D.** 38
```

Watch this video for the answer: https://youtube.com/shorts/x7zh\_WqO1e4

What is the output of the following code? [Python Quiz #11]

```
def my_func(fruit):
   if fruit:
```

```
return True
    return False
fruits = ["apple","", "orange"
,"mango" ]
print(list(filter(my_func,fruits)))
```python
**A)** ['apple', 'orange', 'mango']
**B)** ['apple', '', 'orange', 'mango']
**C)** ['', '', '']
**D)** ['True', 'False', 'True', 'True']
**Watch this video for the answer:** [https://youtube.com/shorts/gkGpJfxsDew]
(https://youtube.com/shorts/gkGpJfxsDew)
#43 What is the output of the zip() function when one iterable is shorter than the
others?
Watch the Video Tutorial for the Answer: https://youtube.com/shorts/TOxTxP9x4ME?
feature=share
#python #pythonpoll #MCQsTest #yasirbhutta
a) The function raises an exception
b) The function returns only the tuples that have corresponding elements in all
iterables
c) The function pads the shorter iterable with None values
d) The function pads the shorter iterable with the last value of the iterable
Answer: b) The function returns only the tuples that have corresponding elements
in all iterables
#42 What does the zip() function in Python do?
Watch the Video Tutorial for the Answer: https://youtube.com/shorts/7ix3cDWAsUc?
feature=share
#python #pythonpoll #MCQsTest #yasirbhutta
a) Compresses a file into a ZIP archive
b) Combines two or more iterables into a single iterable of tuples, where each
tuple contains one element from each iterable
c) Creates a dictionary from two iterables, with keys from one iterable and values
from another iterable
d) Calculates the checksum of a file
Answer: b) Combines two or more iterables into a single iterable of tuples, where
each tuple contains one element from each iterable
Q: What is the syntax for the zip() function in Python?
```

a) zip(iterable1, iterable2)

```
b) zip(iterable1, iterable2, ...)
c) zip(*iterables)
d) zip(iterables)
Answer: c) zip(*iterables)
Q: How can you use the zip() function to unzip a list of tuples?
a) list(zip(*tuples_list))
b) tuple(zip(*tuples_list))
c) set(zip(*tuples_list))
d) dict(zip(*tuples_list))
Answer: a) list(zip(*tuples_list))
## Fill in the Blanks
**Answer Key (Fill in the Blanks):**
## Exercises
## Review Questions
## References and Bibliography
[1] "Built-in Functions - Python 3.12.4 documentation," docs.python.org.
[https://docs.python.org/3/library/functions.html]
(https://docs.python.org/3/library/functions.html)
```