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Python Exercises, Practice Questions and Solutions

Difficulty Level : Easy   •   Last Updated : 09 Jan, 2021

Python is a widely used general-purpose high-level language that can be used for many purposes like creating GUI, web Scraping, web development, etc. You might have seen various Python tutorials that explain the concepts in detail but that might not be enough to get hold of this language. The best way to learn is by practicing it more and more.

This Python exercise helps you learn Python using sets of detailed programming Questions from basic to advance. It covers questions on core Python concepts as well as applications of Python on various domains.

Python List Exercises

- Python program to swap two elements in a list
- Python | Ways to find length of list
- Maximum of two numbers in Python
- Minimum of two numbers in Python

>> More Programs on List

Python String Exercises

- Python program to check whether the string is Symmetrical or Palindrome
- Reverse words in a given String in Python
- Ways to remove i'th character from string in Python
- Find length of a string in python (4 ways)
- Python program to print even length words in a string

>> More Programs on String

Python Tuple Exercises

- Python program to Find the size of a Tuple
- Python – Maximum and Minimum K elements in Tuple
- Python – Sum of tuple elements
- Python – Row-wise element Addition in Tuple Matrix
- Create a list of tuples from given list having number and its cube in each tuple

>> More Programs on Tuple

Python Dictionary Exercises

- Python | Sort Python Dictionaries by Key or Value
- Handling missing keys in Python dictionaries
- Python dictionary with keys having multiple inputs
- Python program to find the sum of all items in a dictionary
- Python program to find the size of a Dictionary

>> More Programs on Dictionary

- Iterate over a set in Python
- Python – Maximum and Minimum in a Set
- Python – Remove items from Set
- Python – Check if two lists have atleast one element common

>> More Programs on Sets

Python Matrix Exercises

- Python – Assigning Subsequent Rows to Matrix first row elements
- Adding and Subtracting Matrices in Python
- Python – Group similar elements into Matrix
- Python – Row-wise element Addition in Tuple Matrix
- Create an n x n square matrix, where all the sub-matrix have the sum of opposite corner elements as even

>> More Programs on Matrices

Python Functions Exercises

- How to get list of parameters name from a function in Python?
- How to Print Multiple Arguments in Python?
- Python program to find the power of a number using recursion
- Sorting objects of user defined class in Python
- Functions that accept variable length key value pair as arguments

>> More Programs on Functions

Python Lambda Exercises

- Lambda with if but without else in Python
- Python | Sorting string using order defined by another string
- Python | Find fibonacci series upto n using lambda
- Python program to count Even and Odd numbers in a List
- Python | Find the Number Occurring Odd Number of Times using Lambda expression and reduce function

Python Pattern printing Exercises

- Program to print half Diamond star pattern
- Programs for printing pyramid patterns in Python
- Program to print the diamond shape
- Python | Print an Inverted Star Pattern
- Python Program to print digit pattern

>> More Programs on Python Pattern Printing

Python DateTime Exercises

- Python program to get Current Time
- Get Yesterday's date using Python
- Python program to print current year, month and day
- Python – Convert day number to date in particular year
- Get Current Time in different Timezone using Python

>> More Programs on DateTime

Python OOPS Exercises

- Python program to build flashcard using class in Python
- Shuffle a deck of card with OOPS in Python
- How to create an empty class in Python?
- Student management system in Python

>> More Programs on Python OOPS

Python Regex Exercises

- Python program to find the type of IP Address using Regex
- Python program to find Indices of Overlapping Substrings
- Python program to extract Strings between HTML Tags
- Python – Check if String Contain Only Defined Characters using Regex
- Python program to find files having a particular extension using RegEx

Python LinkedList Exercises

- Python program to Search an Element in a Circular Linked List
- Pretty print Linked List in Python
- Python | Stack using Doubly Linked List
- Python | Queue using Doubly Linked List
- Python program to find middle of a linked list using one traversal

>> More Programs on Linked Lists

Python Searching Exercises

- Python Program for Linear Search
- Python Program for Binary Search (Recursive and Iterative)
- Python Program for Anagram Substring Search (Or Search for all permutations)

>> More Programs on Python Searching

Python Sorting Exercises

- Python Program for Bubble Sort
- Python Program for QuickSort
- Python Program for Insertion Sort
- Python Program for Selection Sort
- Python Program for Heap Sort

>> More Programs on Python Sorting

Python DSA Exercises

- Python program to reverse a stack
- Multithreaded Priority Queue in Python
- Check whether the given string is Palindrome using Stack
- Program to Calculate the Edge Cover of a Graph
- Python Program for N Queen Problem

- [Read content from one file and write it into another file](#)
- [Write a dictionary to a file in Python](#)
- [How to check file size in Python?](#)
- [Find the most repeated word in a text file](#)
- [How to read specific lines from a File in Python?](#)

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Python CSV Exercises

- [Update column value of CSV in Python](#)
- [How to add a header to a CSV file in Python?](#)
- [Get column names from CSV using Python](#)
- [Writing data from a Python List to CSV row-wise](#)
- [Convert multiple JSON files to CSV Python](#)

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Python JSON Exercises

- [Convert class object to JSON in Python](#)
- [Convert JSON data Into a Custom Python Object](#)
- [Flattening JSON objects in Python](#)
- [Convert CSV to JSON using Python](#)

[>> More Programs on Python JSON](#)

Python OS Module Exercises

- [How to get file creation and modification date or time in Python?](#)
- [Menu Driven Python program for opening the required software Applictaion](#)
- [Python Script to change name of a file to its timestamp](#)
- [Kill a Process by name using Python](#)
- [Finding the largest file in a directory using Python](#)

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Python Tkinter Exercises

- [Python | Create a GUI Marksheet using Tkinter](#)
- [Python | ToDo GUI Application using Tkinter](#)
- [Python | GUI Calendar using Tkinter](#)
- [File Explorer in Python using Tkinter](#)
- [Visiting Card Scanner GUI Application using Python](#)

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NumPy Exercises

- [How to create an empty and a full NumPy array?](#)
- [Create a Numpy array filled with all zeros](#)
- [Create a Numpy array filled with all ones](#)
- [Replace NumPy array elements that doesn't satisfy the given condition](#)
- [Get the maximum value from given matrix](#)

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Pandas Exercises

- [Make a Pandas DataFrame with two-dimensional list | Python](#)
- [How to iterate over rows in Pandas Dataframe](#)
- [Create a pandas column using for loop](#)
- [Create a Pandas Series from array](#)
- [Pandas | Basic of Time Series Manipulation](#)

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Python Web Scraping Exercises

- [How to extract youtube data in Python?](#)
- [How to Download All Images from a Web Page in Python?](#)
- [Test the given page is found or not on the server Using Python](#)
- How to Extract Wikipedia Data in Python?

Python Selenium Exercises

- Download File in Selenium Using Python
- Bulk Posting on Facebook Pages using Selenium
- Google Maps Selenium automation using Python
- Count total number of Links In Webpage Using Selenium In Python
- Extract Data From JustDial using Selenium

>> More Programs on Python Selenium

Python Projects

- Number guessing game in Python
- 2048 Game in Python
- Get Live Weather Desktop Notifications Using Python
- 8-bit game using pygame
- Tic Tac Toe GUI In Python using PyGame

>> More Projects in Python

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To begin with, your interview preparations Enhance your Data Structures concepts with the **Python DS** Course. And to begin with your Machine Learning Journey, join the Machine Learning – Basic Level Course

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