



[Python Basics](#) [Interview Questions](#) [Python Quiz](#) [Popular Packages](#) [Python Projects](#) [Practice Python](#) [AI Wit](#)

Last Updated : 29 May, 2021

The full form of **JSON is JavaScript Object Notation**. It means that a script (executable) file which is made of text in a programming language, is used to store and transfer the data. Python supports JSON through a built-in package called JSON. To use this feature, we import the JSON package in Python script. The text in JSON is done through quoted-string which contains the value in key-value mapping within { }. It is similar to the dictionary in Python.

CSV (Comma Separated Values) is a simple file format used to store tabular data, such as a spreadsheet or database. CSV file stores tabular data (numbers and text) in plain text. Each line of the file is a data record. Each record consists of one or more fields, separated by commas. The use of the comma as a field separator is the source of the name for this file format.

Refer to the below articles to understand the basics of JSON and CSV.

- [Working With JSON Data in Python](#)
- [Working with CSV file in Python.](#)

Converting JSON to CSV

For simple JSON data consisting of key and value pairs, keys will be headers for the CSV file and values the descriptive data.

Example: Suppose the JSON file looks like this:



```
{
  "emp_details": [
    {
      "emp_name": "Shubham",
      "email": "ksingh.shubh@gmail.com",
      "job_profile": "intern"
    },
    {
      "emp_name": "Gaurav",
      "email": "gaurav.singh@gmail.com",
      "job_profile": "developer"
    }
  ]
}
```

We want to convert the above JSON to CSV file with key as headers.

Python3

```
# Python program to convert
# JSON file to CSV
```

```
import json
import csv
```

```
# Opening JSON file and loading the data
# into the variable data
with open('data.json') as json_file:
    data = json.load(json_file)
```

```
employee_data = data['emp_details']

# now we will open a file for writing
data_file = open('data_file.csv', 'w')

# create the csv writer object
csv_writer = csv.writer(data_file)

# Counter variable used for writing
# headers to the CSV file
count = 0

for emp in employee_data:
    if count == 0:

        # Writing headers of CSV file
        header = emp.keys()
        csv_writer.writerow(header)
        count += 1

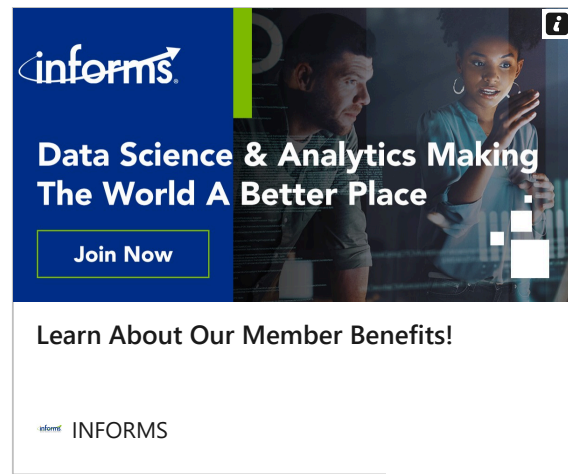
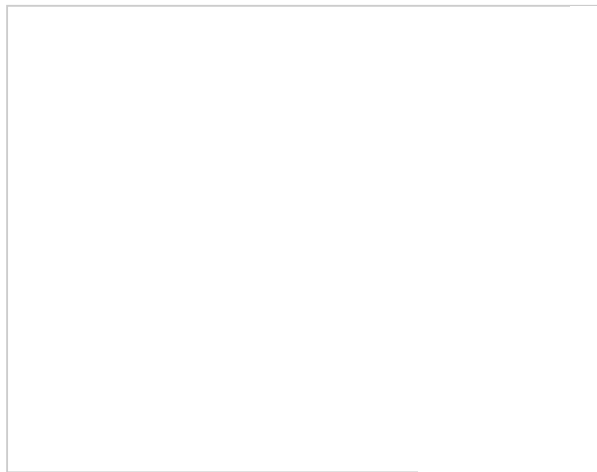
    # Writing data of CSV file
    csv_writer.writerow(emp.values())

data_file.close()
```

Output:

	A	B	C
1	emp name	email	job_profile
2	Shubham	ksingh.shubh@gmail.com	intern
3	Gaurav	gaurav.singh@gmail.com	developer
4			
5			
6			
7			

And, if you are working on JSON data like the following:



[

{'Age': 18.0, 'Salary': 20000.0, 'Gender': 'Male', 'Country': 'Germany', 'Purchased': 'N'}

{'Age': 19.0, 'Salary': 22000.0, 'Gender': 'Female', 'Country': 'France', 'Purchased': 'N'}

{'Age': 20.0, 'Salary': 24000.0, 'Gender': 'Female', 'Country': 'England', 'Purchased': 'N'}

]

The below code will work perfectly for you (please format the code before running)

Python3

```
import json
import csv

with open('G:\Akhil\jsonoutput.json') as json_file:
    jsontdata = json.load(json_file)

data_file = open('G:\Akhil\jsonoutput.csv', 'w', newline='')
csv_writer = csv.writer(data_file)

count = 0
for data in jsontdata:
```

```
if count == 0:
    header = data.keys()
    csv_writer.writerow(header)
    count += 1
csv_writer.writerow(data.values())

data_file.close()
```

Looking to dive into the world of programming or sharpen your Python skills? Our [Master Python: Complete Beginner to Advanced Course](#) is your ultimate guide to becoming proficient in Python. This course covers everything you need to build a solid foundation from fundamental programming concepts to advanced techniques. With **hands-on projects**, real-world examples, and expert guidance, you'll gain the confidence to tackle complex **coding challenges**. Whether you're starting from scratch or aiming to enhance your skills, this course is the perfect fit. Enroll now and master Python, the language of the future!

[Comment](#)[More info](#)

Next Article

Rename a folder of images using
Tkinter

Similar Reads

Python Exercise with Practice Questions and Solutions

Python Exercise for Beginner: Practice makes perfect in everything, and this is especially true when learning Python. If you're a beginner, regularly practicing Python exercises will build your confidence and sharpen you...

9 min read

Python List Exercise

Basic List ProgramsPython - Ways to find length of listMaximum of two numbers in PythonMinimum of two numbers in PythonPython program to interchange first and last elements in a listPython program to swap t...

3 min read