

# Convert the Orders data to a Set of structures.

## Contents

Orders Introduction .....	2
Task Requirement .....	2
Input .....	2
Expected Output .....	2
I.    Customers. CSV .....	3
II.   Customer Address. CSV .....	3
III.  Customer Order Master .CSV .....	3
IV.  Customer Order Details. CSV .....	3
V.   Payment Details.CSV .....	3

## Orders Introduction

The programmer would be given a nested Orders json file that contains,

- Information pertaining to a list of orders raised by a customer to purchase key products for their entity.
- Product Information.
- Key details about the customer.
- Customer's Billing Address.
- Payment made.
- Shipping details.
- Discount information.
- Status History.
- Store Details.

## Task Requirement

Using a Python program

1. Import and parse the Orders data from a json format, and
2. Output to a set of data structures as CSV files.
3. Information to be extracted are,
  - Customers Info
  - Customer Address Details
  - Customer Order Master
  - Customer Order Details
  - Payment Information

## Input

Orders JSON file is attached with this file.

## Expected Output

The output of the program should generate the parsed data to a set of information populated in CSV format. Sample formats are shown below.

#### I. Customers. CSV

CustomerID	First Name	Last Name	Customer Phone	Customer Email
574640	Djoko	vic	(229) 34-535365	<a href="mailto:yy@gmail.com">yy@gmail.com</a>

#### II. Customer Address. CSV

CustomerID	AddressID	Address Type	Street Address	City	Region	Country	Postcode
574640	1578997	billing	"234 DFD"FD"	LNDN	VVVV	UK	31757

#### III. Customer Order Master .CSV

OrderID	CustomerID	Order Date	Payment ID	Total Quantity	Grand Total	Total Paid	Order Status
847019	574640	05-04-2021 13:46	2077077620	1	39.95	39.95	complete

#### IV. Customer Order Details. CSV

Order ID	Product ID	Product Type	SKU	Product Price	Order Quantity	Any Discount	Price - Discount
847019	363403	SIMPLE	21397057	39.95	1	N	0

#### V. Payment Details.CSV

Payment ID	Customer ID	Method of Payment	Amount Paid	Card Type	Card last 4 Digits	Card Expiry Month Year
2077077620	574640	authnetcim	39.95	VISA	5034	Sep-23

## Build Docker Container

Post completion of the code, the code should be running inside a Docker Container.

## CI/CD

Publish the code to the GitHub Private repository and build the docker container using GitHub Actions.

## Demo

Post completions send the code as a zip file with Readme Instructions.