# Dictionary to DataFrame (2) in Python using Pandas - Explanation and Solution

## Problem Statement

You are given a DataFrame named cars created from a dictionary. However, the row labels (index) are automatically set to integers from 0 to 6. The tasks are: 1) Define a list named row\_labels containing the desired row labels. 2) Set the index of cars to row\_labels. 3) Print the updated cars DataFrame to verify the row labels are correctly set.

## Given Data

names = ['United States', 'Australia', 'Japan', 'India', 'Russia', 'Morocco', 'Egypt']

dr = [True, False, False, False, True, True, True]

cpc = [809, 731, 588, 18, 200, 70, 45]

cars\_dict = {'country': names, 'drives\_right': dr, 'cars\_per\_cap': cpc}

row\_labels = ['US', 'AUS', 'JPN', 'IN', 'RU', 'MOR', 'EG']

## Instructions

- Import pandas as pd.

- Create a DataFrame named cars from cars\_dict.

- Set cars.index to row\_labels to update the row labels.

- Print the updated cars DataFrame.

## Solution

Here's how to create the DataFrame, update the row labels, and print the updated DataFrame:

import pandas as pd  
  
# Given data  
names = ['United States', 'Australia', 'Japan', 'India', 'Russia', 'Morocco', 'Egypt']  
dr = [True, False, False, False, True, True, True]  
cpc = [809, 731, 588, 18, 200, 70, 45]  
  
# Create dictionary  
cars\_dict = {  
 'country': names,  
 'drives\_right': dr,  
 'cars\_per\_cap': cpc  
}  
  
# Build DataFrame  
cars = pd.DataFrame(cars\_dict)  
print(cars)  
  
# Define row labels  
row\_labels = ['US', 'AUS', 'JPN', 'IN', 'RU', 'MOR', 'EG']  
  
# Set row labels of cars  
cars.index = row\_labels  
  
# Print updated DataFrame  
print(cars)

## Explanation

1. We first define the DataFrame cars using the cars\_dict dictionary, which organizes the data into columns.

2. The row labels (index) are initially integers (0 to 6). To update them, we define a list row\_labels containing the new labels.

3. We set cars.index to row\_labels to update the row labels of the DataFrame.

4. Finally, we print the updated cars DataFrame to verify the changes.