**40.How to plot heat maps in python?**

**Objective:**

* To plot heap maps for input variables using python.

**Process:**

* Import libraries.
* Heat maps one of the advanced for data visualization in python.
* Take sample data.(Rows and columns).
* Define rows and columns according to our data set.
* Use plt.pcolor() to plot heat maps diagram.

**Input:**

* Sample data.

**Output:**

* Heat maps plotting for our sample data.

**Source code:**

#import libraries

import matplotlib.pyplot as plt

import pandas as pd

#take sample

data=[{650.5,553.2,619},{789,845.2,598},{650.5,553.2,619},{598,732.8,722.2},{553.2,619,789}]

#define how many rows

Index= ['I1', 'I2','I3','I4','I5']

#define how many columns

Cols = ['C1', 'C2', 'C3']

#create data frame

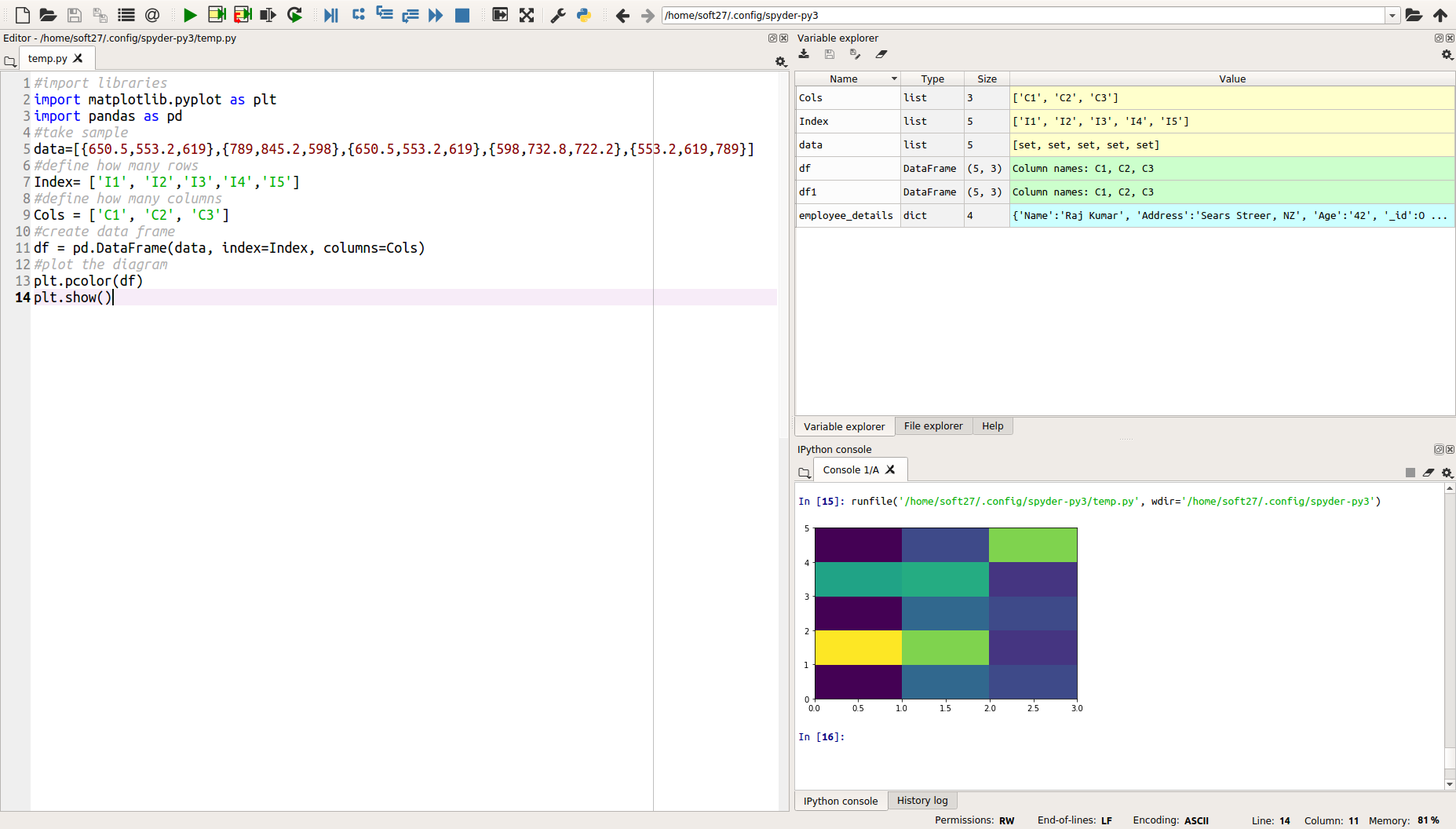
df = pd.DataFrame(data, index=Index, columns=Cols)

#plot the diagram

plt.pcolor(df)

plt.show()

**Screen shot:**

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