code	description
Import pandas as pd	Imports pandas library as pd variable
Import numpy as np	Import numpy library as numpy variable
Import matplotlib.pyplot as plt	Import matplotlib.pyplot library as plt variable
Honey=pd.read_csv('US_honey_dataset.csv')	Import dataframe under a variable. Here honey is variable and US_honey_dataset.csv is a csv file whos data we are going to use as dataframe
pd.set_option('display.max_rows', None)	It will allow to display all rows of dataframe
honey_1=honey.groupby(['state'])	Group dataset by unique values in a column. In this code dataframe is being grouped by unique values of 'state' column
king=honey_1['value_of_production'].sum()	Calculating sum of values in 'value_of_production' column by states groups.
king_sorted = king.sort_values(ascending=False)	Sort the values in king variable
Alabama=honey[honey['state']=='Alabama']	Grouping data by 1 unique value from 'state' column in 'honey' name dataframe
state_data_2 = honey[(honey['state'] == 'Alabama') | (honey['state'] == 'Arizona')]	Grouping data by multiple unique value from 'state' column in 'honey' name dataframe
Alabama[['state', 'production', 'year']]	Viewing 3 columns in Alabama dataframe
Alabama['production'].sum()	Sum of 'production' column in Alabama dataframe
Alabama['production'].mean()	mean of 'production' column in Alabama dataframe
Alabama['production'].median()	median of 'production' column in Alabama dataframe
Alabama['production'].mode()	mode of 'production' column in Alabama dataframe
honey_count =honey['state'].nunique()	Counts the number of unique values in 'honey' dataframe`s state column
honey_count_states = honey['state'].value_counts()	Count the number of occurrence of each unique value in given column

data = {
'Year': [2018, 2019, 2020],
'Yield_Per_Colony': [30, 35, 40]
}
df = pd.DataFrame(data)
 	
# Display the DataFrame 	
print(df)	

df = pd.read_csv('data.csv')	
print(df.head())	# First 5 rows
print(df.tail(3))	# Last 3 rows
yield_colony = df['Yield_Per_Colony']	
subset_df = df[['Year', 'Yield_Per_Colony']]	
filtered_df = df[df['Yield_Per_Colony'] > 35]	
df['Stocks'] = [100, 120, 130]	Adding new column
df.rename(columns={'Yield_Per_Colony': 'YPC'}, inplace=True)	Rename column
grouped_df = df.groupby('Year').mean()	Group data
sorted_df = df.sort_values(by='Yield_Per_Colony', ascending=False)	Sorting data
df.to_csv('output.csv', index=False)	Save data to csv
print(df.describe())	Summary stats