

FUNCTION APPLICATION

ASSIGNMENTS

- Q.1 Give the answer of following questions with example
1. How To Create a Pandas DataFrame
 2. How To Select an Index or Column From a DataFrame
 3. How To Add an Index, Row or Column to a DataFrame
 4. How To Delete Indices, Rows or Columns From a DataFrame
 5. How To Rename the Columns or Indices of a DataFrame
 6. How To Format the Data in Your DataFrame
 7. How To Create an Empty DataFrame
 8. Does Pandas Recognize Dates When Importing Data?
 9. When, Why and How You Should Reshape Your DataFrame
 10. How To Iterate Over a DataFrame
 11. How To Write a DataFrame to a File
- Q.2 Differentiate between `.apply()` and `.applymap()` functions.
- Q.3 What is the use of `describe()` function?
- Q.4 What is the default grouping is made using pandas `groupby` method?
- Q.5 Define `apply()` function with an example.
- Q.6 What is the use pandas `groupby()` method?
- Q.7 what is `pipe()` function, give suitable example program?

Q.8 Suppose you have dataframe of following data

```
A B
0  a 3
1  b 2
2  a 7
3  b 9
```

Now find the difference between maximum and minimum value of a and b elements

Q.9 Suppose you have dataframe of following data

```
      0          1          2
0  1.233340    2.345400    5.234300
1  7.123213    3.345345    4.234234
```

Now display the rounded value upto 2 point.

Q.10 A sample dataframe is given with different columns as given below:

ItemID	ItemName	Manufacturer	Price	CustomerName	City
PC01	AC	SONY	42000	N Sarkar	Delhi
LC05	FREEZE	LG	55000	R Mishra	Mumbai
PC03	AC	LG	32000	R Dwivedi	Delhi
PC06	TV	LG	37000	A Gupta	Chennai
LC03	TV	BUSH	57000	R Agarwal	Bengaluru
AL03	FREEZE	VIDEOCON	9800	S C Roy	Delhi

Write the command for

(a) Find city wise total price.

(b) Find manufacturer wise total price.