

DATA HANDLING USING PANDAS - I

ASSIGNMENTS

1. Which method is used to make a Dataframe?
2. Write the syntax of DataFrame method.
3. Is series is a one-dimensional array which is labelled and can hold any data type?
4. Which function allows us to manipulate data and create new variables in pandas library.
5. Are DataFrames container for Series.
6. Data structures in Pandas can be mutated in the terms of _____ but not of _____.
7. Explain Series In pandas. How To Create Copy Of Series In pandas?
8. Define Python pandas
9. Mention The Different Types Of Data Structures In pandas?
10. What Is A pandas DataFrame? How we can Create An Empty DataFrame In pandas?
11. Write the name of methods used with series with their purpose
12. Write the name of methods used with DataFrame with their purpose
13. Creating a Series using List and Dictionary
14. Create series using NumPy functions
15. Get index and values of a series
16. Filter DataFrame rows using isin
17. Drop DataFrame Column(s) by Name or Index
18. Add new column to DataFrame
19. Get list of the column headers
20. Convert Dictionary into DataFrame
21. Check that DataFrame is empty
22. Slice DataFrame using loc
23. Differentiate loc vs iloc slicing in DataFrame
24. Add row at end of dataframe
25. Get mean(average) of rows and columns of dataframe

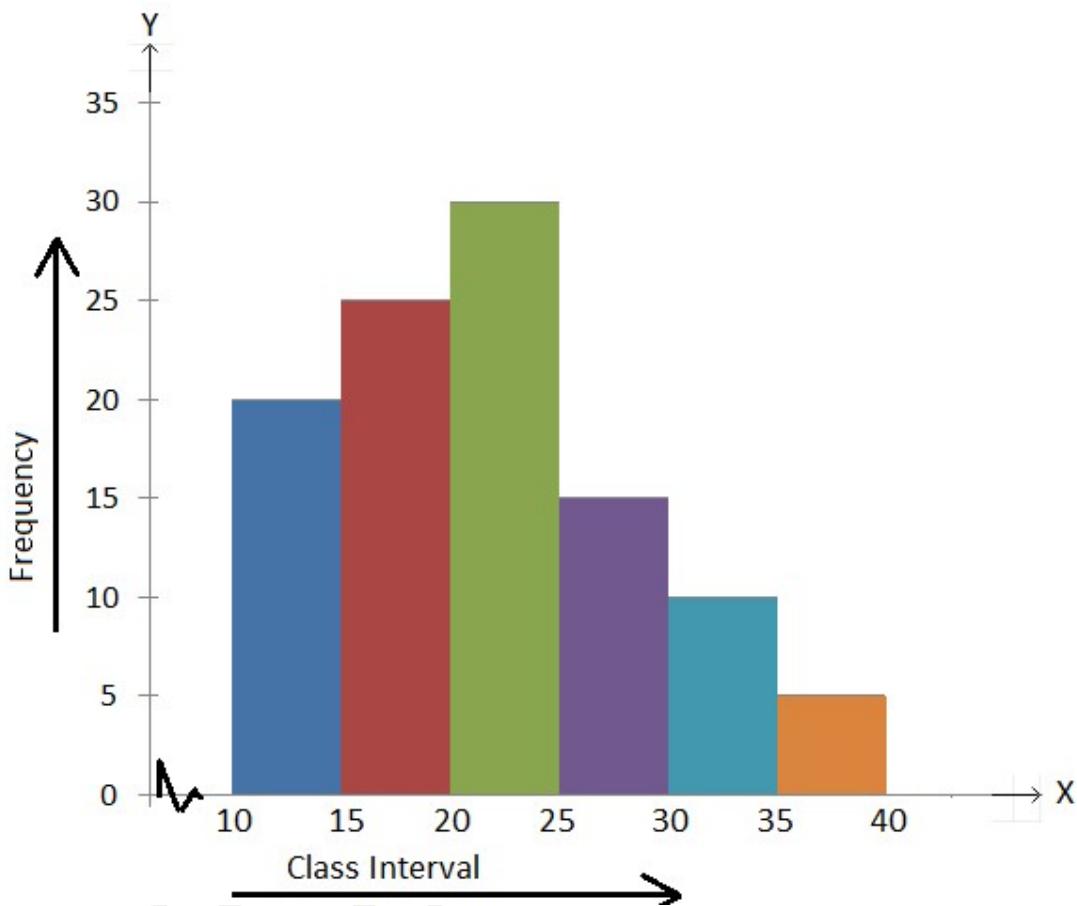
26. find the output of program given below.

```
data = np.array([[','Col1','Col2'],
                ['Row1',1,2],
                ['Row2',3,4]])
print(pd.DataFrame(data=data[1:,1:],
                   index=data[1:,0], columns=data[0,1:]))
```

DATA VISUALIZATION

ASSIGNMENTS

The histogram for a frequency distribution is given below.



Answer the following.

- (i) What is the frequency of the class interval 15 – 20?
- (ii) What is the class intervals having the greatest frequency?
- (iii) What is the cumulative frequency of the class interval 25 – 30?
- (iv) Construct a short frequency table of the distribution.
- (v) Construct a cumulative frequency table of the distribution.