

DATA HANDLING USING PANDAS - I

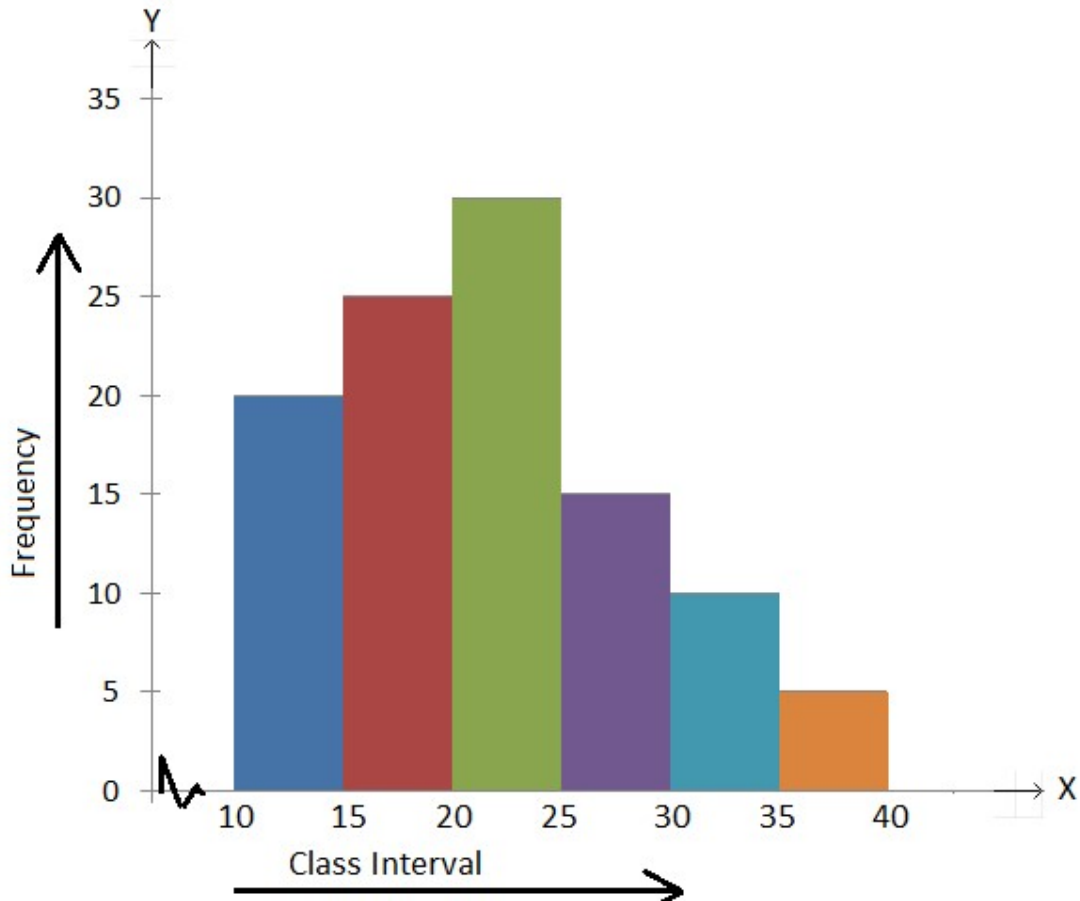
ASSIGNMENTS

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.