

PANDAS COOKBOOK ASSIGNMENT - 1

1. Explain the use of following DataFrame attributes with example
 - a. **index**
 - b. **columns**
 - c. **value**
 - d. **dtypes**
2. Explain the use of following DataFrame methods with example
 - a. `get_dtype_counts()`
 - b. `to_frame()`
 - c. `set_index()`
 - d. `reset_index()`
3. How can you select a series of data from DataFrame. Explain with the help of an example.
4. Explain the use of following series methods with example.
 - a. `len()`
 - b. `value_counts()`
 - c. `count()`
 - d. `min()`
 - e. `max()`
 - f. `mean()`
 - g. `median()`
 - h. `std()`
 - i. `sum()`
 - j. `describe()`
 - k. `quantile()`
 - l. `isnull()`
 - m. `fillna()`
 - n. `dropna()`
 - o. `notnull()`
5. Explain the use of following series attributes with example
 - a. `size`
 - b. `shape`
 - c. `hasnans`
6. Explain the following series methods with example
 - a. `add()`
 - b. `mul()`
 - c. `floordiv()`
 - d. `gt()`
 - e. `eq()`
 - f. `mod()`
 - g. `pow()`
 - h. `lt()`
 - i. `le()`
 - j. `ge()`
 - k. `eq()`
 - l. `ne()`
7. Demonstrate the use of following operators on Series using an example for each
 - a. `+`

- b. -
- c. *
- d. /
- e. //
- f. %
- g. **
- h. <
- i. >
- j. <=
- k. >=
- l. ==
- m. !=

- 8. Difference between mul() and * (in series).
- 9. What are special method? Explain with example.
- 10. What is method chaining. Explain with example.
- 11. How can you count the number of missing values in a series?
- 12. How can you find the percentage of missing values in a series?
- 13. What is method chaining ? What are its disadvantages ?
- 14. Explain the use of **index_col** parameter of read_csv() method with an example.
- 15. Rename the column **director_name** as **Director Name**
- 16. There are several columns that contain data on the number of Facebook likes. Create a new column named '**FB_LIKES_TOTAL**', which will contain the sum of all such columns.
- 17. Delete the column **actor_director_facebook_likes**
- 18. Add another column that will show the profit the movies has made.