

Pandas Methods

S.No	Function	Description
1	<code>read_csv()</code>	Reads a comma-separated values (CSV) file into a DataFrame.
2	<code>columns</code>	It is an inbuilt variable that returns column names from the DataFrame.
3	<code>info()</code>	Displays a summary of the DataFrame including data types, non-null counts, and memory usage.
4	<code>head()</code>	Returns the top N rows from the DataFrame. (Default N=5).
5	<code>tail()</code>	Returns the bottom N rows from the DataFrame. (Default N=5).
6	<code>fillna()</code>	Fills the missing values (None, NaN) with a specified value or method.
7	<code>dropna()</code>	Removes rows or columns with missing values. (axis=0 for rows, axis=1 for columns).
8	<code>astype()</code>	Converts the data type of one or more columns. (A dictionary can be passed as an argument).
9	<code>drop()</code>	Removes specific rows or columns from the DataFrame. (Use index/columns or axis=0/axis=1).
10	<code>rename()</code>	Changes the names of rows or columns. (Use index/columns or axis=0/axis=1).
11	<code>replace()</code>	Replaces one or more old values by new values. (A dictionary can be passed as an argument).
12	<code>map()</code>	Replaces all old values with new values. (If not matched, replaces with NaN/None. A dictionary can be used).
13	<code>reset_index()</code>	Resets the index to the default integer index starting from zero.
14	<code>drop_duplicates()</code>	Returns a DataFrame with duplicate rows removed.
15	<code>describe()</code>	Provides summary statistics for numeric columns.
16	<code>duplicated()</code>	Returns a Boolean Series indicating duplicate rows.
17	<code>set_index()</code>	Sets a specific column as the DataFrame index.
18	<code>groupby()</code>	Groups data based on column values and allows aggregation.
19	<code>sort_index()</code>	Sorts the DataFrame by its index.
20	<code>sort_values()</code>	Sorts the DataFrame by the values in one or more columns.
21	<code>corr()</code>	Computes pairwise correlation of numeric columns.
22	<code>isnull()</code>	Returns a Boolean DataFrame indicating missing values.
23	<code>nunique()</code>	Counts the number of unique values in a column.
24	<code>unique()</code>	Returns the unique values in a column.
25	<code>value_counts()</code>	Returns the count of each unique value in a column.

26	<code>read_excel()</code>	Reads an Excel file into a DataFrame.
27	<code>read_json()</code>	Reads a JSON file or string into a DataFrame.
28	<code>Series()</code>	Creates a one-dimensional labeled array.
29	<code>DataFrame()</code>	Creates a two-dimensional labeled data structure (table).
30	<code>to_datetime()</code>	Converts a column or value to datetime format.
31	<code>cut()</code>	Converts continuous data into bins(intervals).
32	<code>merge()</code>	Merges DataFrames using database-style join operations.
33	<code>concat()</code>	Concatenates pandas objects along a specified axis.
34	<code>pivot()</code>	Converts <i>long data</i> to <i>wide format</i> using unique values from one column to create new columns. (Rows become columns.)
35	<code>melt()</code>	Converts <i>wide data</i> to <i>long format</i> by unpivoting columns into rows. (Columns become rows).
36	<code>pivot_table()</code>	Creates a pivot table with aggregation
37	<code>count()</code>	Returns the number of non-missing values in each column or row.
38	<code>max()</code>	Returns the maximum value in each column or row.
39	<code>min()</code>	Returns the minimum value in each column or row.
40	<code>sum()</code>	Returns the sum of values for each column or row.
41	<code>mean()</code>	Returns the mean (average) of values in each column or row.
42	<code>idxmax()</code>	Returns the index of the first occurrence of the maximum value.
43	<code>idxmin()</code>	Returns the index of the first occurrence of the minimum value.
44	<code>agg()</code>	Applies one or more aggregation functions to a DataFrame or Series.
45	<code>to_csv()</code>	Converts the DataFrame to a CSV file.
46	<code>to_excel()</code>	Converts the DataFrame to an Excel file.
47	<code>to_json()</code>	Converts the DataFrame to a JSON file.

df . info() df . head() df . tail() df . describe() df . duplicated() df . drop_duplicates() df . astype() df . fillna() df . dropna() df . drop() df . replace() df . rename() df . set_index() df . reset_index() df . sort_index() df . sort_values() df . corr() df . isnull()	Pd . read_csv() Pd . read_excel() Pd . read_json() Pd . Series() Pd . DataFrame () Pd . to_datetime() Pd . cut() Pd . merge() Pd . concat() Pd . pivot() Pd . melt() Pd . pivot_table()	count() max() min() sum() mean() std() var() percentile() idxmax() idxmin() agg()
	shape columns index values loc [] iloc []	g = df . groupby() g . get_group() g . groups
		Str . (built-in methods)
df . to_csv() df . to_excel () df . to_json ()	df [col] . nunique() df [col] . unique() df [col] . value_counts () df [col] . map()	