

```
In [1]: import pandas as pd
import seaborn as sns
import numpy as np
import matplotlib.pyplot as plt
```

```
In [2]: iris=pd.read_csv(r"C:\Users\student\Desktop\result1.csv")
```

```
In [3]: print(iris.shape)

(10, 5)
```

```
In [4]: print(iris.columns)

Index(['name', 'roll no', 'maths', 'phy', 'chem'], dtype='object')
```

```
In [5]: iris["maths"].value_counts()
```

```
Out[5]: 56    1
        61    1
        76    1
        89    1
        57    1
        87    1
        85    1
        82    1
        79    1
        96    1
        Name: maths, dtype: int64
```

```
In [6]: import pandas as pd
iris=pd.read_csv("/home/jovyan/demo/data/iris.csv")
print(iris)
```

-----  
**FileNotFoundError**

Traceback (most recent call last)

<ipython-input-6-e30f04389ce7> in <module>

```
1 import pandas as pd
----> 2 iris=pd.read_csv("/home/jovyan/demo/data/iris.csv")
3 print(iris)
```

~\anaconda3\lib\site-packages\pandas\io\parsers.py in read\_csv(filepath\_or\_buffer, sep, delimiter, header, names, index\_col, usecols, squeeze, prefix, mangle\_dupe\_cols, dtype, engine, converters, true\_values, false\_values, skipinitialspace, skiprows, skipfooter, nrows, na\_values, keep\_default\_na, na\_filter, verbose, skip\_blank\_lines, parse\_dates, infer\_datetime\_format, keep\_date\_col, date\_parser, dayfirst, cache\_dates, iterator, chunksize, compression, thousands, decimal, lineterminator, quotechar, quoting, doublequote, escapechar, comment, encoding, dialect, error\_bad\_lines, warn\_bad\_lines, delim\_whitespace, low\_memory, memory\_map, float\_precision)

```
684 )
685
--> 686 return _read(filepath_or_buffer, kwds)
687
688
```

~\anaconda3\lib\site-packages\pandas\io\parsers.py in \_read(filepath\_or\_buffer, kwds)

```
450
451 # Create the parser.
--> 452 parser = TextFileReader(fp_or_buf, **kwds)
453
454 if chunksize or iterator:
```

~\anaconda3\lib\site-packages\pandas\io\parsers.py in \_\_init\_\_(self, f, engine, \*\*kwds)

```
944 self.options["has_index_names"] = kwds["has_index_names"]
945
--> 946 self._make_engine(self.engine)
947
948 def close(self):
```

~\anaconda3\lib\site-packages\pandas\io\parsers.py in \_make\_engine(self, engine)

```
1176 def _make_engine(self, engine="c"):
1177     if engine == "c":
--> 1178         self._engine = CParserWrapper(self.f, **self.options)
1179     else:
1180         if engine == "python":
```

~\anaconda3\lib\site-packages\pandas\io\parsers.py in \_\_init\_\_(self, src, \*\*kws)

```
2006 kws["usecols"] = self.usecols
2007
--> 2008 self._reader = parsers.TextReader(src, **kws)
2009 self.unnamed_cols = self._reader.unnamed_cols
2010
```

```
pandas\_libs\parsers.pyx in pandas._libs.parsers.TextReader.__cinit__()
```

```
pandas\_libs\parsers.pyx in pandas._libs.parsers.TextReader._setup_parser_source()
```

```
FileNotFoundError: [Errno 2] No such file or directory: '/home/jovyan/demo/data/iris.csv'
```

```
In [7]: import pandas as pd
iris=pd.read_csv(r"C:\Users\student\Desktop\iris.csv")
print(iris)
```

	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	se
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa
..	...	...	...	...	...
146	6.3	2.5	5	1.9	virginica
147	6.5	3.0	5.2	2.0	virginica
148	6.2	3.4	5.4	2.3	virginica
149	5.9	3.0	5.1	1.8	virginica
150	5.8	3.2	5.2	NaN	virginica

```
[151 rows x 5 columns]
```

```
In [8]: print(iris.info())
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 151 entries, 0 to 150
Data columns (total 5 columns):
#   Column          Non-Null Count  Dtype
---  -
0   sepal_length    151 non-null   float64
1   sepal_width     151 non-null   float64
2   petal_length    151 non-null   object
3   petal_width     150 non-null   float64
4   species         151 non-null   object
dtypes: float64(3), object(2)
memory usage: 6.0+ KB
None
```

```
In [10]: print(iris.to_string())
iris.fillna(120, inplace=True)
print(iris.to_string())
```

47	4.6	3.2	1.4	0.2	setosa
48	5.3	3.7	1.5	0.2	setosa
49	5.0	3.3	1.4	0.2	setosa
50	7.0	3.2	4.7	1.4	versicolor
51	6.4	3.2	4.5	1.5	versicolor
52	6.9	3.1	4.9	1.5	versicolor
53	5.5	2.3	4	1.3	versicolor
54	6.5	2.8	4.6	1.5	versicolor
55	5.7	2.8	4.5	1.3	versicolor
56	6.3	3.3	4.7	1.6	versicolor
57	4.9	2.4	3.3	1.0	versicolor
58	6.6	2.9	4.6	1.3	versicolor
59	5.2	2.7	3.9	1.4	versicolor
60	5.0	2.0	3.5	1.0	versicolor
61	5.9	3.0	4.2	1.5	versicolor
62	6.0	2.2	4	1.0	versicolor
63	6.1	2.9	4.7	1.4	versicolor
64	5.6	2.9	3.6	1.3	versicolor
65	6.7	3.1	4.4	1.4	versicolor

```
In [13]: print(iris["sepal_length"].loc[0:5])
```

```
0    5.1
1    4.9
2    4.7
3    4.6
4    5.0
5    5.4
Name: sepal_length, dtype: float64
```

In [21]:

```

-----
PermissionError                                Traceback (most recent call last)
<ipython-input-21-e01cc6639319> in <module>
----> 1 iris=pd.read_csv(r"C:\Users\student\Desktop\2018-census-totals-by-topic-
-national-highlights-csv")

~\anaconda3\lib\site-packages\pandas\io\parsers.py in read_csv(filepath_or_buff
er, sep, delimiter, header, names, index_col, usecols, squeeze, prefix, mangle_
dupe_cols, dtype, engine, converters, true_values, false_values, skipinitialspa
ce, skiprows, skipfooter, nrows, na_values, keep_default_na, na_filter, verbos
e, skip_blank_lines, parse_dates, infer_datetime_format, keep_date_col, date_pa
rser, dayfirst, cache_dates, iterator, chunksize, compression, thousands, decim
al, lineterminator, quotechar, quoting, doublequote, escapechar, comment, encod
ing, dialect, error_bad_lines, warn_bad_lines, delim_whitespace, low_memory, me
mory_map, float_precision)
    684     )
    685
--> 686     return _read(filepath_or_buffer, kwds)
    687
    688

~\anaconda3\lib\site-packages\pandas\io\parsers.py in _read(filepath_or_buffer,
kwds)
    450
    451     # Create the parser.
--> 452     parser = TextFileReader(fp_or_buf, **kwds)
    453
    454     if chunksize or iterator:

~\anaconda3\lib\site-packages\pandas\io\parsers.py in __init__(self, f, engine,
**kwds)
    944         self.options["has_index_names"] = kwds["has_index_names"]
    945
--> 946         self._make_engine(self.engine)
    947
    948     def close(self):

~\anaconda3\lib\site-packages\pandas\io\parsers.py in _make_engine(self, engin
e)
    1176     def _make_engine(self, engine="c"):
    1177         if engine == "c":
-> 1178             self._engine = CParserWrapper(self.f, **self.options)
    1179         else:
    1180             if engine == "python":

~\anaconda3\lib\site-packages\pandas\io\parsers.py in __init__(self, src, **kwd
s)
    2006         kwds["usecols"] = self.usecols
    2007
-> 2008         self._reader = parsers.TextReader(src, **kwds)
    2009         self.unnamed_cols = self._reader.unnamed_cols
    2010

pandas\_libs\parsers.pyx in pandas._libs.parsers.TextReader.__cinit__()

```

```
pandas\_libs\parsers.pyx in pandas._libs.parsers.TextReader._setup_parser_source()
```

```
PermissionError: [Errno 13] Permission denied: 'C:\\Users\\student\\Desktop\\2018-census-totals-by-topic-national-highlights-csv'
```

In [20]:

```

      Code Cigarette_smoking_behaviour \
0         1      Regular smoker
1         2      Ex-smoker
2         3      Never smoked regularly
3         7      Response unidentifiable
4         9      Not stated
5 TotalStated      Total stated
6      Total      Total

Census_usually_resident_population_count_aged_15_years_and_over
0         498996
1         832104
2        2445252
3             0
4             0
5        3776355
6        3776355

```

In [22]:

```
import pandas as pd
iris=pd.read_csv(r"C:\Users\student\Desktop\iris.csv")
print(iris)
```

```

      sepal_length  sepal_width  petal_length  petal_width  species
0             5.1           3.5           1.4           0.2      se
1             4.9           3.0           1.4           0.2    setosa
2             4.7           3.2           1.3           0.2    setosa
3             4.6           3.1           1.5           0.2    setosa
4             5.0           3.6           1.4           0.2    setosa
..            ...           ...           ...           ...      ...
146            6.3           2.5            5           1.9  virginica
147            6.5           3.0           5.2           2.0  virginica
148            6.2           3.4           5.4           2.3  virginica
149            5.9           3.0           5.1           1.8  virginica
150            5.8           3.2           5.2           NaN  virginica

```

[151 rows x 5 columns]

```
In [27]: print(iris.drop(["sepal_length"],axis=1))
```

	sepal_width	petal_length	petal_width	species
0	3.5	1.4	0.2	se
1	3.0	1.4	0.2	setosa
2	3.2	1.3	0.2	setosa
3	3.1	1.5	0.2	setosa
4	3.6	1.4	0.2	setosa
..	...	...	...	...
146	2.5	5	1.9	virginica
147	3.0	5.2	2.0	virginica
148	3.4	5.4	2.3	virginica
149	3.0	5.1	1.8	virginica
150	3.2	5,2	NaN	virginica

[151 rows x 4 columns]

```
In [40]: import pandas as pd
iris=pd.read_csv(r"C:\Users\student\Desktop\rr.csv.csv")
print(iris)
```

	Code	Access_to_basic_amenities \
0	00	None of these
1	01	Cooking facilities
2	02	Tap water that is safe to drink
3	03	Kitchen sink
4	04	Refrigerator
5	05	Bath or shower
6	06	Toilet
7	07	Electricity supply
8	77	Response unidentifiable
9	99	Not stated
10	TotalStated	Total stated
11	TotalResponses	Total responses
12	Total	Total

	Occupied_private_dwellings
0	5979
1	1512414
2	1481133
3	1513830
4	1481430
5	1514472
6	1515042
7	1503675
8	1794
9	132615
10	1529901
11	10527978
12	1664313

In [41]: `print(iris.drop(["Code"],axis=1))`

	Access_to_basic_amenities	Occupied_private_dwellings
0	None of these	5979
1	Cooking facilities	1512414
2	Tap water that is safe to drink	1481133
3	Kitchen sink	1513830
4	Refrigerator	1481430
5	Bath or shower	1514472
6	Toilet	1515042
7	Electricity supply	1503675
8	Response unidentifiable	1794
9	Not stated	132615
10	Total stated	1529901
11	Total responses	10527978
12	Total	1664313

In [42]: `print(iris.info())`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 13 entries, 0 to 12
Data columns (total 3 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   Code                                  13 non-null     object
1   Access_to_basic_amenities            13 non-null     object
2   Occupied_private_dwellings           13 non-null     int64
dtypes: int64(1), object(2)
memory usage: 440.0+ bytes
None
```

In [ ]: