

```

# Count target values
class_counts = df['target'].value_counts()

# Plot bar chart
class_counts.plot(kind='bar')

plt.title("Count of Each Iris Class")
plt.xlabel("Class")
plt.ylabel("Count")
plt.show()

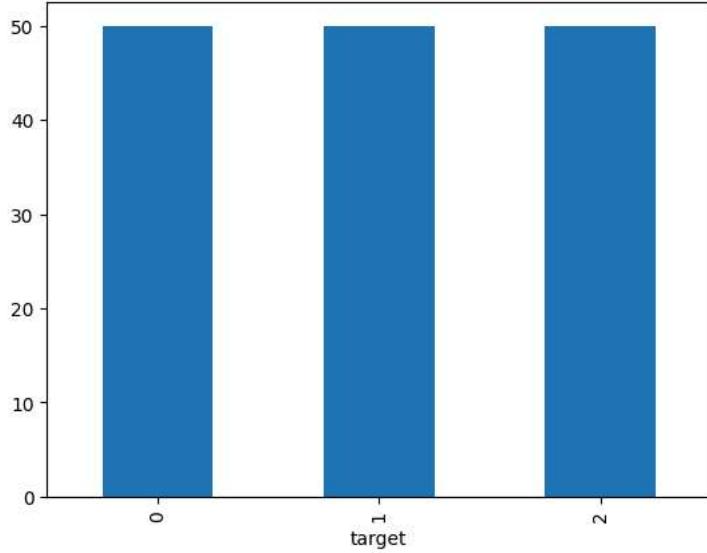
```

```

-----
NameError                                 Traceback (most recent call last)
/tmp/ipython-input-490107367.py in <cell line: 0>()
      5 class_counts.plot(kind='bar')
      6
----> 7 plt.title("Count of Each Iris Class")
     8 plt.xlabel("Class")
     9 plt.ylabel("Count")

NameError: name 'plt' is not defined

```



```

# Import required libraries
import pandas as pd
from sklearn.datasets import load_iris

# Load dataset
iris = load_iris()

# Convert to DataFrame
df = pd.DataFrame(iris.data, columns=iris.feature_names)

# Add target column
df['target'] = iris.target

# Display first 5 rows
print(df.head())

```

	sepal length (cm)	sepal width (cm)	petal length (cm)	petal width (cm)	\
0	5.1	3.5	1.4	0.2	
1	4.9	3.0	1.4	0.2	
2	4.7	3.2	1.3	0.2	
3	4.6	3.1	1.5	0.2	
4	5.0	3.6	1.4	0.2	

	target
0	0
1	0
2	0
3	0
4	0

```
avg_values = df.groupby('target')['sepal length (cm)'].mean()

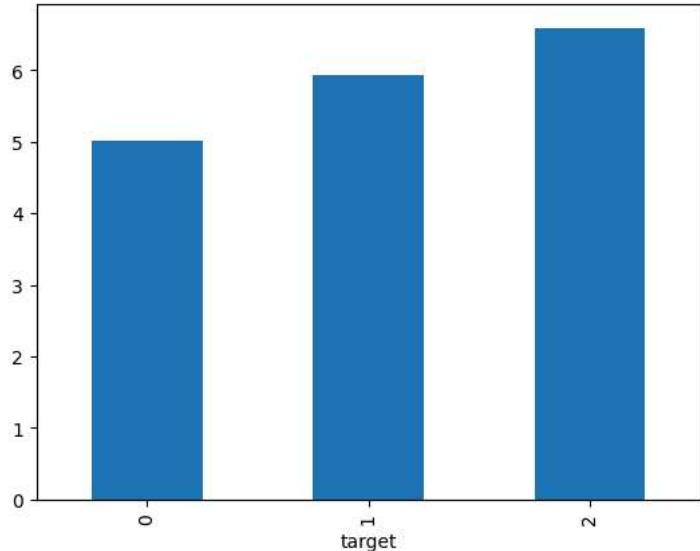
avg_values.plot(kind='bar')

plt.title("Average Sepal Length per Class")
plt.xlabel("Class")
plt.ylabel("Average Sepal Length")
plt.show()
```

```
NameError: name 'plt' is not defined
```

Traceback (most recent call last)
/tmp/ipython-input-476343221.py in <cell line: 0>()
 3 avg_values.plot(kind='bar')
 4
----> 5 plt.title("Average Sepal Length per Class")
 6 plt.xlabel("Class")
 7 plt.ylabel("Average Sepal Length")

```
NameError: name 'plt' is not defined
```



```
df['sepal length (cm)'].plot(kind='hist', bins=10)

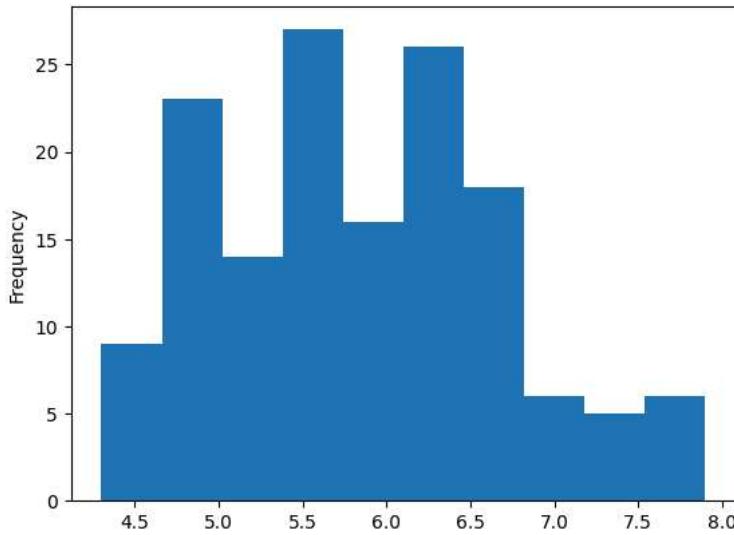
plt.title("Histogram of Sepal Length")
plt.xlabel("Sepal Length")
plt.ylabel("Frequency")
plt.show()
```

```

NameError                                 Traceback (most recent call last)
/tmp/ipython-input-3013750268.py in <cell line: 0>()
      1 df['sepal length (cm)'].plot(kind='hist', bins=10)
      2
----> 3 plt.title("Histogram of Sepal Length")
      4 plt.xlabel("Sepal Length")
      5 plt.ylabel("Frequency")

NameError: name 'plt' is not defined

```



```

df.hist(figsize=(8,6))
plt.show()

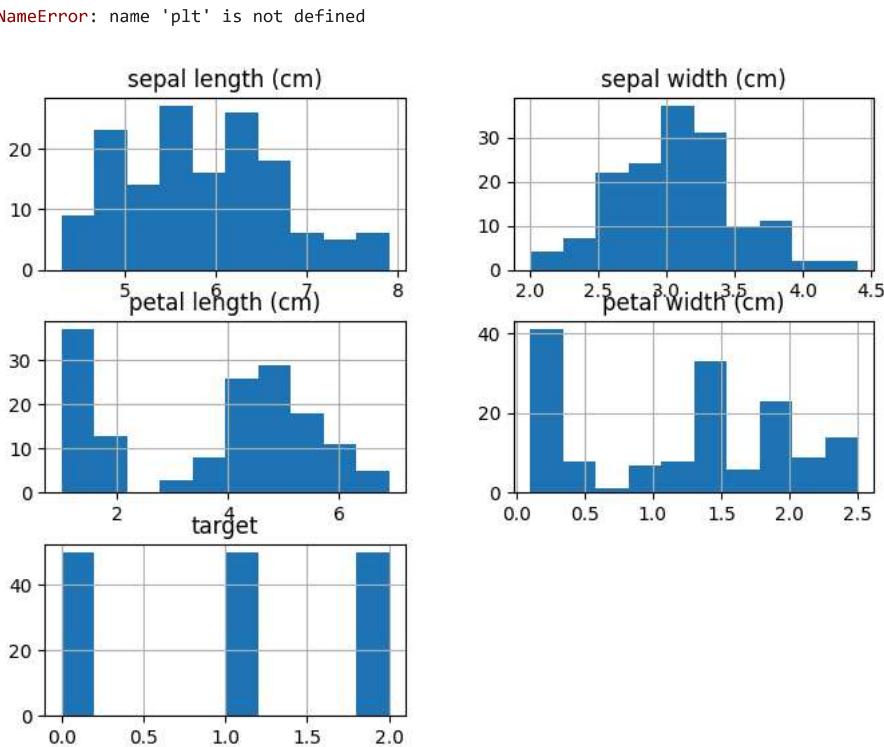
```

```

NameError                                 Traceback (most recent call last)
/tmp/ipython-input-2711263754.py in <cell line: 0>()
      1 df.hist(figsize=(8,6))
      2
----> 2 plt.show()

NameError: name 'plt' is not defined

```



```

import pandas as pd
import numpy as np

```

```

d = {'First Score': [100, 90, np.nan, 95],
      'Second Score': [30, 45, 56, np.nan],
      'Third Score': [np.nan, 40, 80, 98]}
df = pd.DataFrame(d)
mv = df.isnull()
print(mv)

```

	First Score	Second Score	Third Score
0	False	False	True
1	False	False	False
2	True	False	False
3	False	True	False

```

import pandas as pd
d = pd.read_csv("/content/employees.csv")
bool_series = pd.isnull(d["Gender"])
missing_gender_data = d[bool_series]
print(missing_gender_data)

```

```

-----
FileNotFoundException                                     Traceback (most recent call last)
/tmp/ipython-input-1269140581.py in <cell line: 0>()
      1 import pandas as pd
----> 2 d = pd.read_csv("/content/employees.csv")
      3 bool_series = pd.isnull(d["Gender"])
      4 missing_gender_data = d[bool_series]
      5 print(missing_gender_data)

----- 4 frames -----
/usr/local/lib/python3.12/dist-packages/pandas/io/common.py in get_handle(path_or_buf, mode, encoding, compression, memory_map,
is_text, errors, storage_options)
    871         if ioargs.encoding and "b" not in ioargs.mode:
    872             # Encoding
--> 873             handle = open(
    874                 handle,
    875                 ioargs.mode,

FileNotFoundException: [Errno 2] No such file or directory: '/content/employees.csv'

```

```

import pandas as pd

d = pd.read_csv("/content/employees.csv")
missing_gender_data = d[d["Gender"].isnull()]

print(missing_gender_data)

```

```

-----
FileNotFoundException                                     Traceback (most recent call last)
/tmp/ipython-input-1455461440.py in <cell line: 0>()
      1 import pandas as pd
      2
----> 3 d = pd.read_csv("/content/employees.csv")
      4 missing_gender_data = d[d["Gender"].isnull()]
      5

----- 4 frames -----
/usr/local/lib/python3.12/dist-packages/pandas/io/common.py in get_handle(path_or_buf, mode, encoding, compression, memory_map,
is_text, errors, storage_options)
    871         if ioargs.encoding and "b" not in ioargs.mode:
    872             # Encoding
--> 873             handle = open(
    874                 handle,
    875                 ioargs.mode,

FileNotFoundException: [Errno 2] No such file or directory: '/content/employees.csv'

```

```

import pandas as pd

data = {
    "Name": ["A", "B", "C"],
    "Gender": ["M", None, "F"]
}

d = pd.DataFrame(data)
print(d[d["Gender"].isnull()])

```

	Name	Gender
1	B	None

```

import pandas as pd

# Read CSV file
d = pd.read_csv("/content/employees.csv")

# Select rows with missing Gender values
missing_gender_data = d[d["Gender"].isnull()]

# Print result
print(missing_gender_data)

-----
FileNotFoundException                                     Traceback (most recent call last)
/tmp/ipython-input-801858483.py in <cell line: 0>()
    2
    3 # Read CSV file
--> 4 d = pd.read_csv("/content/employees.csv")
    5
    6 # Select rows with missing Gender values

----- 4 frames -----
/usr/local/lib/python3.12/dist-packages/pandas/io/common.py in get_handle(path_or_buf, mode, encoding, compression, memory_map, is_text, errors, storage_options)
    871         if ioargs.encoding and "b" not in ioargs.mode:
    872             # Encoding
--> 873             handle = open(
    874                 handle,
    875                 ioargs.mode,

FileNotFoundException: [Errno 2] No such file or directory: '/content/employees.csv'

```

```

import pandas as pd
import numpy as np
d = {'First Score': [100, 90, np.nan, 95],
      'Second Score': [30, 45, 56, np.nan],
      'Third Score': [np.nan, 40, 80, 98]}
df = pd.DataFrame(d)
nmv = df.notnull()
print(nmv)

   First Score  Second Score  Third Score
0      True       True      False
1      True       True       True
2     False       True       True
3      True      False       True

```

```

import pandas as pd
d = pd.read_csv("/content/employees.csv")
nmg = pd.notnull(d["Gender"])
nmgd= d[nmg]
display(nmgd)

-----
FileNotFoundException                                     Traceback (most recent call last)
/tmp/ipython-input-4069695.py in <cell line: 0>()
    1 import pandas as pd
--> 2 d = pd.read_csv("/content/employees.csv")
    3 nmg = pd.notnull(d["Gender"])
    4 nmgd= d[nmg]
    5 display(nmgd)

----- 4 frames -----
/usr/local/lib/python3.12/dist-packages/pandas/io/common.py in get_handle(path_or_buf, mode, encoding, compression, memory_map, is_text, errors, storage_options)
    871         if ioargs.encoding and "b" not in ioargs.mode:
    872             # Encoding
--> 873             handle = open(
    874                 handle,
    875                 ioargs.mode,

FileNotFoundException: [Errno 2] No such file or directory: '/content/employees.csv'

```

```

import pandas as pd
import numpy as np
d = {'First Score': [100, 90, np.nan, 95],
      'Second Score': [30, 45, 56, np.nan],
      'Third Score': [np.nan, 40, 80, 98]}

```

```
df = pd.DataFrame(d)
df.fillna(0)
```

	First Score	Second Score	Third Score
0	100.0	30.0	0.0
1	90.0	45.0	40.0
2	0.0	56.0	80.0
3	95.0	0.0	98.0

```
import pandas as pd
import numpy as np
data = pd.read_csv("/content/employees.csv")
data[10:25]
```

```
-----  
FileNotFoundException                                Traceback (most recent call last)  
/tmp/ipython-input-2286808386.py in <cell line: 0>()  
      1 import pandas as pd  
      2 import numpy as np  
----> 3 data = pd.read_csv("/content/employees.csv")  
      4 data[10:25]  
  
-----  
        ▾ 4 frames  
/usr/local/lib/python3.12/dist-packages/pandas/io/common.py in get_handle(path_or_buf, mode, encoding, compression, memory_map, is_text, errors, storage_options)  
    871         if ioargs.encoding and "b" not in ioargs.mode:  
    872             # Encoding  
--> 873             handle = open(  
    874                 handle,  
    875                 ioargs.mode,  
  
FileNotFoundException: [Errno 2] No such file or directory: '/content/employees.csv'
```

```
import pandas as pd

df = pd.DataFrame({"A": [12, 4, 5, None, 1],
                   "B": [None, 2, 54, 3, None],
                   "C": [20, 16, None, 3, 8],
                   "D": [14, 3, None, None, 6]})

print(df)
```

```
       A      B      C      D
0  12.0    NaN  20.0  14.0
1   4.0    2.0  16.0   3.0
2   5.0   54.0    NaN   NaN
3   NaN    3.0    3.0   NaN
4   1.0    NaN    8.0   6.0
```

```
import pandas as pd
import numpy as np
dict = {'First Score': [100, 90, np.nan, 95],
        'Second Score': [30, np.nan, 45, 56],
        'Third Score': [52, 40, 80, 98],
        'Fourth Score': [np.nan, np.nan, np.nan, 65]}
df = pd.DataFrame(dict)
df.dropna()
```

	First Score	Second Score	Third Score	Fourth Score
3	95.0	56.0	98	65.0

```
dict = {'First Score': [100, np.nan, np.nan, 95],
        'Second Score': [30, np.nan, 45, 56],
        'Third Score': [52, np.nan, 80, 98],
        'Fourth Score': [np.nan, np.nan, np.nan, 65]}
df = pd.DataFrame(dict)

df.dropna(how='all')
```

```
First Score  Second Score  Third Score  Fourth Score
```

	First Score	Second Score	Third Score	Fourth Score
0	100.0	30.0	52.0	NaN
2	NaN	45.0	80.0	NaN
3	95.0	56.0	98.0	65.0

```
dict = {'First Score': [100, np.nan, np.nan, 95],  
       'Second Score': [30, np.nan, 45, 56],  
       'Third Score': [52, np.nan, 80, 98],  
       'Fourth Score': [60, 67, 68, 65]}  
df = pd.DataFrame(dict)  
  
df.dropna(axis=1)
```

```
Fourth Score
```

	Fourth Score
0	60
1	67
2	68
3	65

```
import pandas as pd  
d = pd.read_csv("/content/employees.csv")  
nd = d.dropna(axis=0, how='any')  
print("Old data frame length:", len(d))  
print("New data frame length:", len(nd))  
print("Rows with at least one missing value:", (len(d) - len(nd)))
```

```
-----  
FileNotFoundException                                Traceback (most recent call last)  
/tmp/ipython-input-1114800991.py in <cell line: 0>()  
      1 import pandas as pd  
----> 2 d = pd.read_csv("/content/employees.csv")  
      3 nd = d.dropna(axis=0, how='any')  
      4 print("Old data frame length:", len(d))  
      5 print("New data frame length:", len(nd))  
  
-----  
        ▾ 4 frames -----  
/usr/local/lib/python3.12/dist-packages/pandas/io/common.py in get_handle(path_or_buf, mode, encoding, compression, memory_map,  
is_text, errors, storage_options)  
    871         if ioargs.encoding and "b" not in ioargs.mode:  
    872             # Encoding  
    873             ...  
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