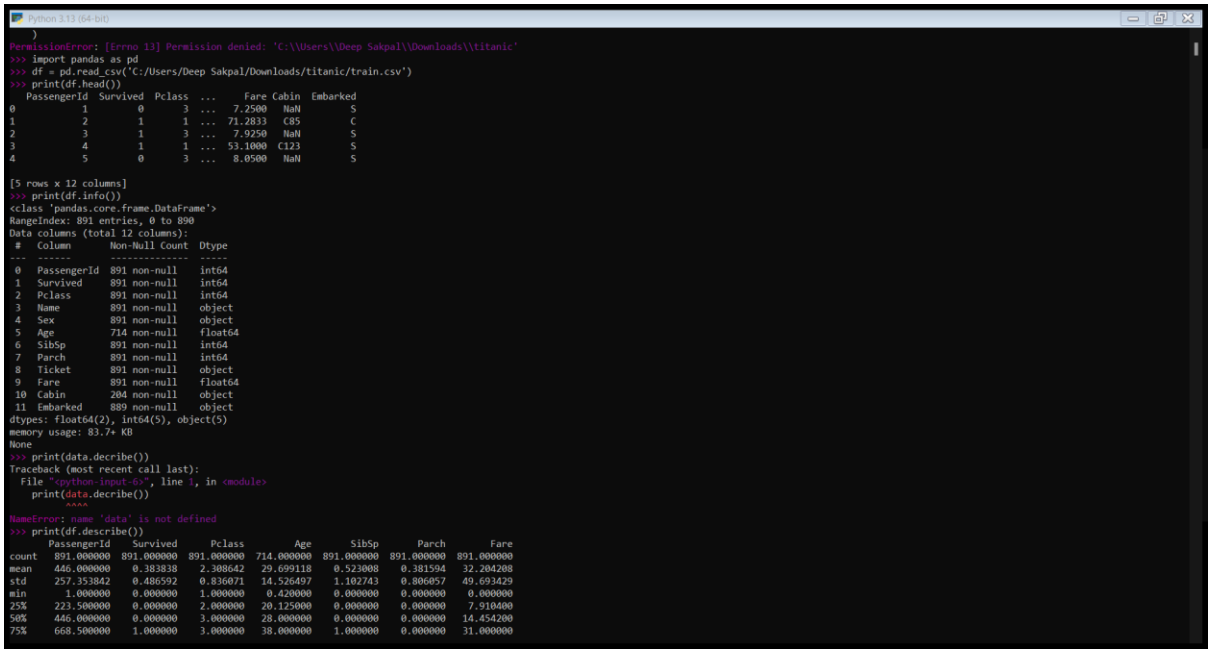
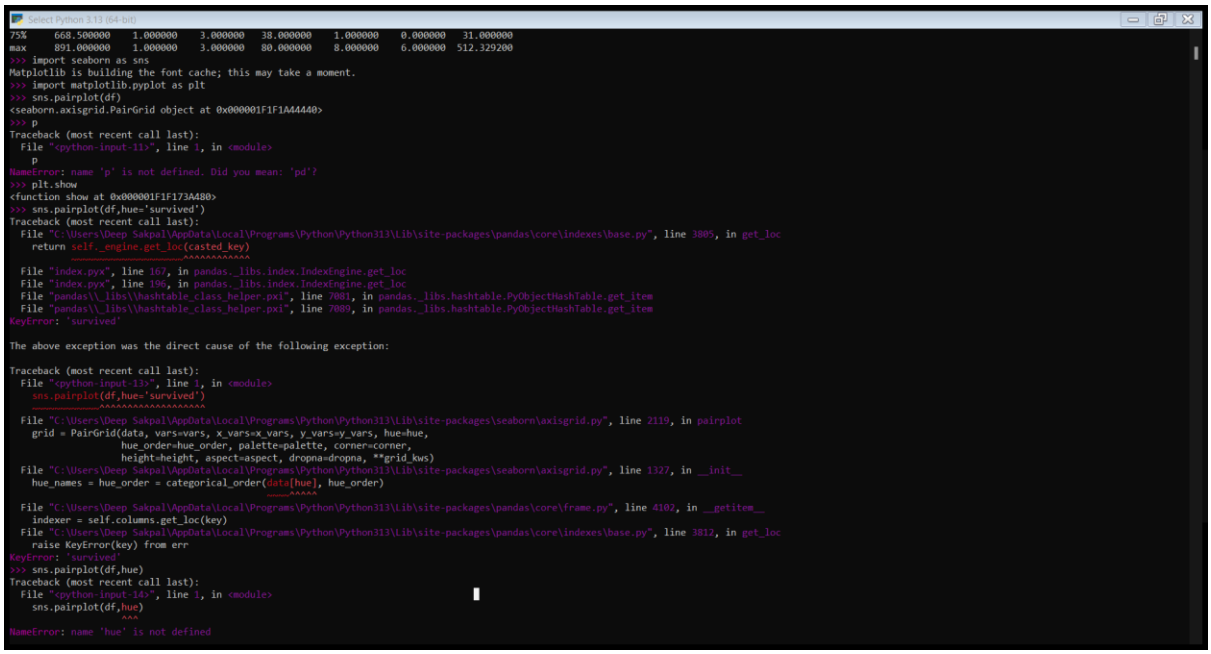
Using describe, include and data head read



```
Python 3.13 (64-bit)
    )
PermissionError: [Errno 13] Permission denied: 'C:\\Users\\Deep Sakpal\\Downloads\\titanic'
>>> import pandas as pd
>>> df = pd.read_csv('C:/Users/Deep Sakpal/Downloads/titanic/train.csv')
>>> print(df.head())
   PassengerId  Survived  Pclass  ...     Fare Cabin  Embarked
0            1         0       3  ...   7.2500   NaN         S
1            2         1       1  ...  71.2833   C85         C
2            3         1       3  ...   7.9250   NaN         S
3            4         1       1  ...  53.1000  C123         S
4            5         0       3  ...   8.0500   NaN         S

[5 rows x 12 columns]
>>> print(df.info())
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 891 entries, 0 to 890
Data columns (total 12 columns):
 #   Column       Non-Null Count  Dtype
---  ------       --------------  -----
 0   PassengerId  891 non-null    int64
 1   Survived     891 non-null    int64
 2   Pclass       891 non-null    int64
 3   Name         891 non-null    object
 4   Sex          891 non-null    object
 5   Age          714 non-null    float64
 6   SibSp        891 non-null    int64
 7   Parch        891 non-null    int64
 8   Ticket       891 non-null    object
 9   Fare         891 non-null    float64
 10  Cabin        204 non-null    object
 11  Embarked     889 non-null    object
dtypes: float64(2), int64(5), object(5)
memory usage: 83.7+ KB
None
>>> print(data.decribe())
Traceback (most recent call last):
  File "<python-input-6>", line 1, in <module>
    print(data.decribe())
          ^^^^
NameError: name 'data' is not defined
>>> print(df.describe())
       PassengerId    Survived      Pclass         Age       SibSp       Parch        Fare
count   891.000000  891.000000  891.000000  714.000000  891.000000  891.000000  891.000000
mean    446.000000    0.383838    2.308642   29.699118    0.523008    0.381594   32.204208
std     257.353842    0.486592    0.836071   14.526497    1.102743    0.806057   49.693429
min       1.000000    0.000000    1.000000    0.420000    0.000000    0.000000    0.000000
25%     223.500000    0.000000    2.000000   20.125000    0.000000    0.000000    7.910400
50%     446.000000    0.000000    3.000000   28.000000    0.000000    0.000000   14.454200
75%     668.500000    1.000000    3.000000   38.000000    1.000000    0.000000   31.000000
```



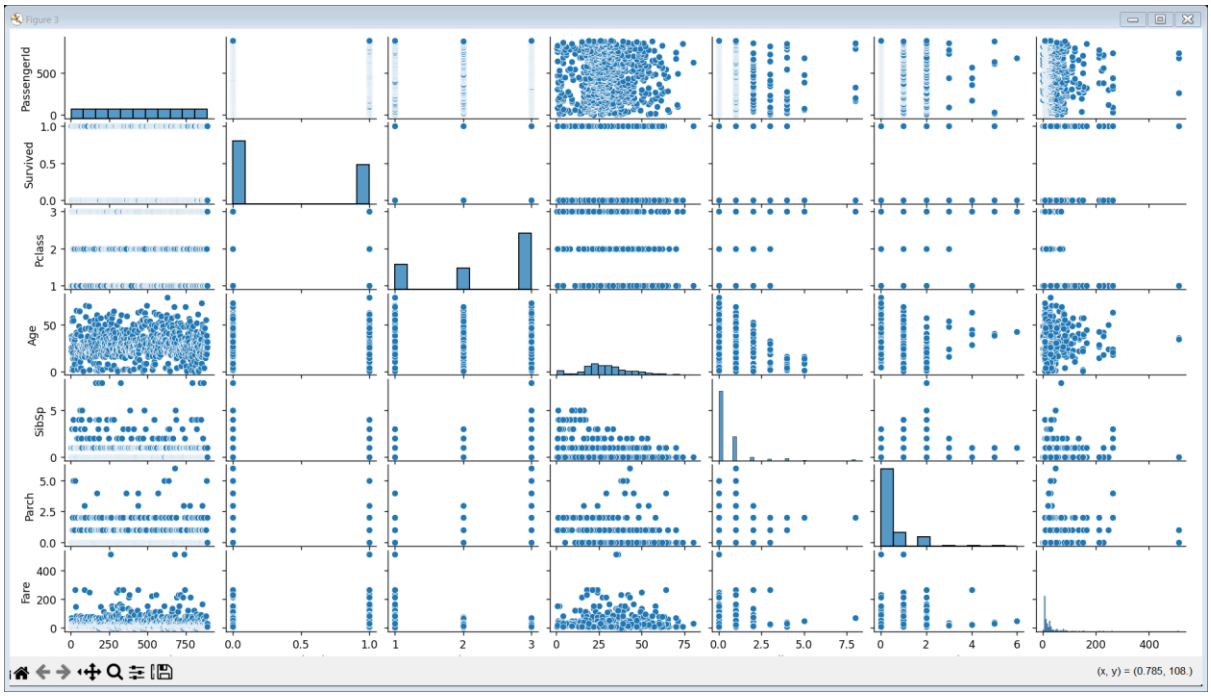
```
Select Python 3.13 (64-bit)
75%     668.500000    1.000000    3.000000   38.000000    1.000000    0.000000   31.000000
max     891.000000    1.000000    3.000000   80.000000    8.000000    6.000000  512.329200
>>> import seaborn as sns
Matplotlib is building the font cache; this may take a moment.
>>> import matplotlib.pyplot as plt
>>> sns.pairplot(df)
<seaborn.axisgrid.PairGrid object at 0x000001F1F1A44440>
>>> p
Traceback (most recent call last):
  File "<python-input-11>", line 1, in <module>
    p
NameError: name 'p' is not defined. Did you mean: 'pd'?
>>> plt.show
<function show at 0x000001F1F173A480>
>>> sns.pairplot(df,hue='survived')
Traceback (most recent call last):
  File "C:\Users\Deep Sakpal\AppData\Local\Programs\Python\Python313\Lib\site-packages\pandas\core\indexes\base.py", line 3805, in get_loc
    return self._engine.get_loc(casted_key)
           ~~~~~~~~~~~~~~~~~~~~^^^^^^^^^^^^
  File "index.pyx", line 167, in pandas._libs.index.IndexEngine.get_loc
  File "index.pyx", line 196, in pandas._libs.index.IndexEngine.get_loc
  File "pandas\\_libs\\hashtable_class_helper.pxi", line 7081, in pandas._libs.hashtable.PyObjectHashTable.get_item
  File "pandas\\_libs\\hashtable_class_helper.pxi", line 7089, in pandas._libs.hashtable.PyObjectHashTable.get_item
KeyError: 'survived'

The above exception was the direct cause of the following exception:

Traceback (most recent call last):
  File "<python-input-13>", line 1, in <module>
    sns.pairplot(df,hue='survived')
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "C:\Users\Deep Sakpal\AppData\Local\Programs\Python\Python313\Lib\site-packages\seaborn\axisgrid.py", line 2119, in pairplot
    grid = PairGrid(data, vars=vars, x_vars=x_vars, y_vars=y_vars, hue=hue,
                    hue_order=hue_order, palette=palette, corner=corner,
                    height=height, aspect=aspect, dropna=dropna, **grid_kws)
  File "C:\Users\Deep Sakpal\AppData\Local\Programs\Python\Python313\Lib\site-packages\seaborn\axisgrid.py", line 1327, in __init__
    hue_names = hue_order = categorical_order(data[hue], hue_order)
                            ~~~~~~~~~~~~~~~~~^^^^^
  File "C:\Users\Deep Sakpal\AppData\Local\Programs\Python\Python313\Lib\site-packages\pandas\core\frame.py", line 4102, in __getitem__
    indexer = self.columns.get_loc(key)
  File "C:\Users\Deep Sakpal\AppData\Local\Programs\Python\Python313\Lib\site-packages\pandas\core\indexes\base.py", line 3812, in get_loc
    raise KeyError(key) from err
KeyError: 'survived'
>>> sns.pairplot(df,hue)
Traceback (most recent call last):
  File "<python-input-14>", line 1, in <module>
    sns.pairplot(df,hue)
                    ^^^
NameError: name 'hue' is not defined
```

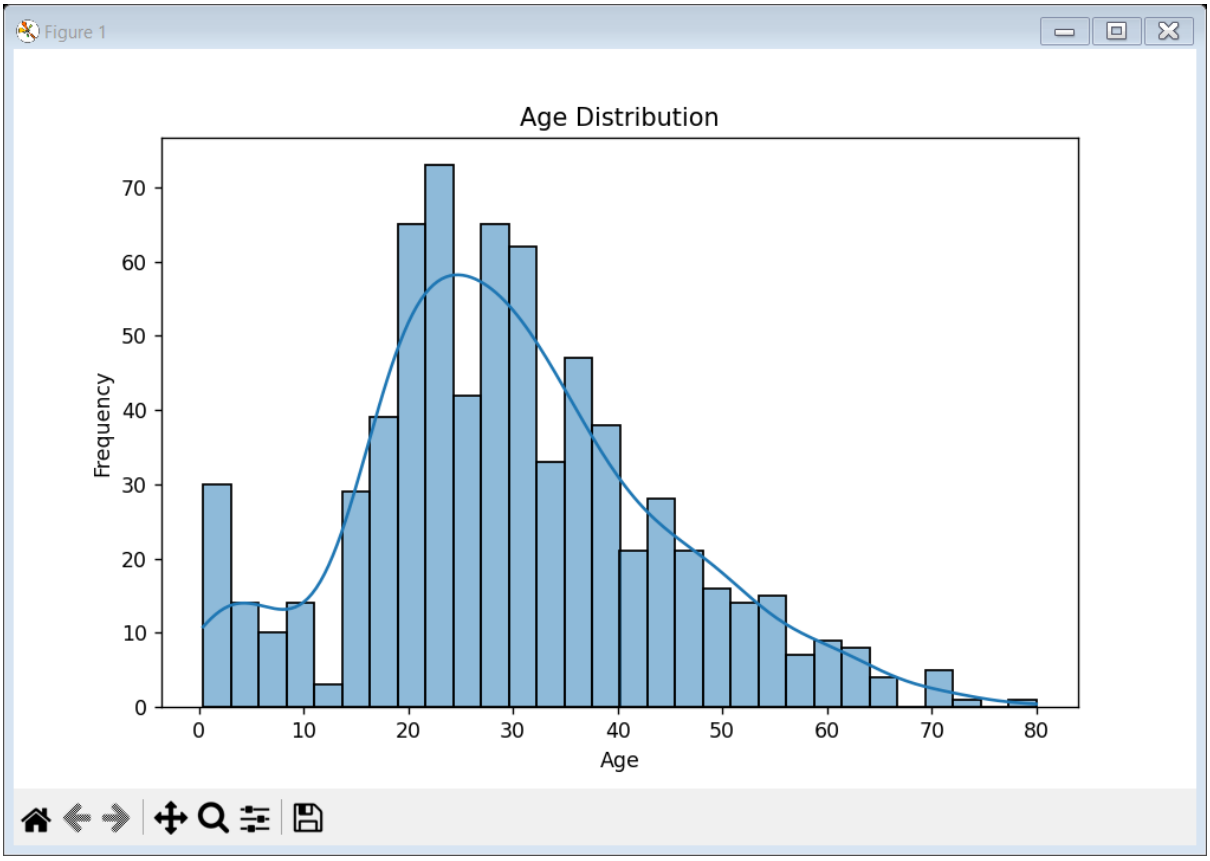
pairplot

```
Traceback (most recent call last):
  File "<python-input-13>", line 1, in <module>
    sns.pairplot(df,hue='survived')
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "C:\Users\Deep Sakpal\AppData\Local\Programs\Python\Python313\Lib\site-packages\seaborn\axisgrid.py", line 2119, in pairplot
    grid = PairGrid(data, vars=vars, x_vars=x_vars, y_vars=y_vars, hue=hue,
                    hue_order=hue_order, palette=palette, corner=corner,
                    height=height, aspect=aspect, dropna=dropna, **grid_kws)
  File "C:\Users\Deep Sakpal\AppData\Local\Programs\Python\Python313\Lib\site-packages\seaborn\axisgrid.py", line 1327, in __init__
    hue_names = hue_order = categorical_order(data[hue], hue_order)
                                              ~~~~^^^^^
  File "C:\Users\Deep Sakpal\AppData\Local\Programs\Python\Python313\Lib\site-packages\pandas\core\frame.py", line 4102, in __getitem__
    indexer = self.columns.get_loc(key)
  File "C:\Users\Deep Sakpal\AppData\Local\Programs\Python\Python313\Lib\site-packages\pandas\core\indexes\base.py", line 3812, in get_loc
    raise KeyError(key) from err
KeyError: 'survived'
>>> sns.pairplot(df,hue)
Traceback (most recent call last):
  File "<python-input-14>", line 1, in <module>
    sns.pairplot(df,hue)
                    ^^^
NameError: name 'hue' is not defined
>>> sns.pairplot(df,age)
Traceback (most recent call last):
  File "<python-input-15>", line 1, in <module>
    sns.pairplot(df,age)
                    ^^^
NameError: name 'age' is not defined
>>> sns.pairplot(df)
<seaborn.axisgrid.PairGrid object at 0x000001F1F983C2D0>
>>> plt.show()
```



histogram

```
Python 3.13 (64-bit)
Python 3.13.3 (tags/v3.13.3:6280bb5, Apr  8 2025, 14:47:33) [MSC v.1943 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import pandas as pd
>>> df = pd.read_csv('C:\\Users\\Deep Sakpal\\Downloads\\titanic\\train.csv')
>>> import pandas as pd
>>> import seaborn as sns
>>> import matplotlib.pyplot as plt
>>> # Histogram of Age
>>> plt.figure(figsize=(8,5))
<Figure size 800x500 with 0 Axes>
>>> sns.histplot(df['Age'], bins=30, kde=True)
<Axes: xlabel='Age', ylabel='Count'>
>>> plt.title('Age Distribution')
Text(0.5, 1.0, 'Age Distribution')
>>> plt.xlabel('Age')
Text(0.5, 0, 'Age')
>>> plt.ylabel('Frequency')
Text(0, 0.5, 'Frequency')
>>> plt.show()
```



boxplot

```
Select Python 3.13 (64-bit)
Python 3.13.3 (tags/v3.13.3:6280bb5, Apr  8 2025, 14:47:33) [MSC v.1943 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import panda as pd
Traceback (most recent call last):
  File "<python-input-0>", line 1, in <module>
    import panda as pd
ModuleNotFoundError: No module named 'panda'
>>> import pandas as pd
>>> import seaborn as sns
>>> import matplotlib.pyplot as plt
>>> # Boxplot of Age based on Survived
>>> plt.figure(figsize=(8,5))
<Figure size 800x500 with 0 Axes>
>>> sns.boxplot(x='Survived', y='Age', data=df)
Traceback (most recent call last):
  File "<python-input-6>", line 1, in <module>
    sns.boxplot(x='Survived', y='Age', data=df)
                                            ^^
NameError: name 'df' is not defined
>>> plt.title('Age distribution by Survival')
Text(0.5, 1.0, 'Age distribution by Survival')
>>> plt.xlabel('Survived')
Text(0.5, 0, 'Survived')
>>> plt.ylabel('Age')
Text(0, 0.5, 'Age')
>>> plt.show()
```