

# **PRACTICAL NO : 08**

## **DATA VISUALIZATION 1**

**CODE :**

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
dataset=sns.load_dataset('titanic')
print(dataset)
dataset.head()

import seaborn as sns
sns.distplot(x = dataset['age'], bins = 10)

sns.distplot(dataset['age'], bins = 10,kde=False)

import seaborn as sns
sns.jointplot(x = dataset['age'], y = dataset['fare'], kind = 'scatter')

sns.jointplot(x = dataset['age'], y = dataset['fare'], kind = 'hex')

sns.rugplot(dataset['fare'])

sns.barplot(x='sex', y='age', data=dataset)
```

```
import numpy as np
```

```
import matplotlib.pyplot as plt
```

```
import seaborn as sns
```

```
sns.barplot(x='sex', y='age', data=dataset, estimator=np.std)
```

```
sns.countplot(x='sex', data=dataset)
```

```
sns.boxplot(x='sex', y='age', data=dataset)
```

```
sns.boxplot(x='sex', y='age', data=dataset, hue="survived")
```

```
sns.violinplot(x='sex', y='age', data=dataset)
```

```
sns.violinplot(x='sex', y='age', data=dataset, hue='survived')
```

```
sns.stripplot(x='sex', y='age', data=dataset, jitter=False)
```

```
sns.stripplot(x='sex', y='age', data=dataset, jitter=True)
```

```
sns.stripplot(x='sex', y='age', data=dataset, jitter=True, hue='survived')
```

```
sns.swarmplot(x='sex', y='age', data=dataset)
```

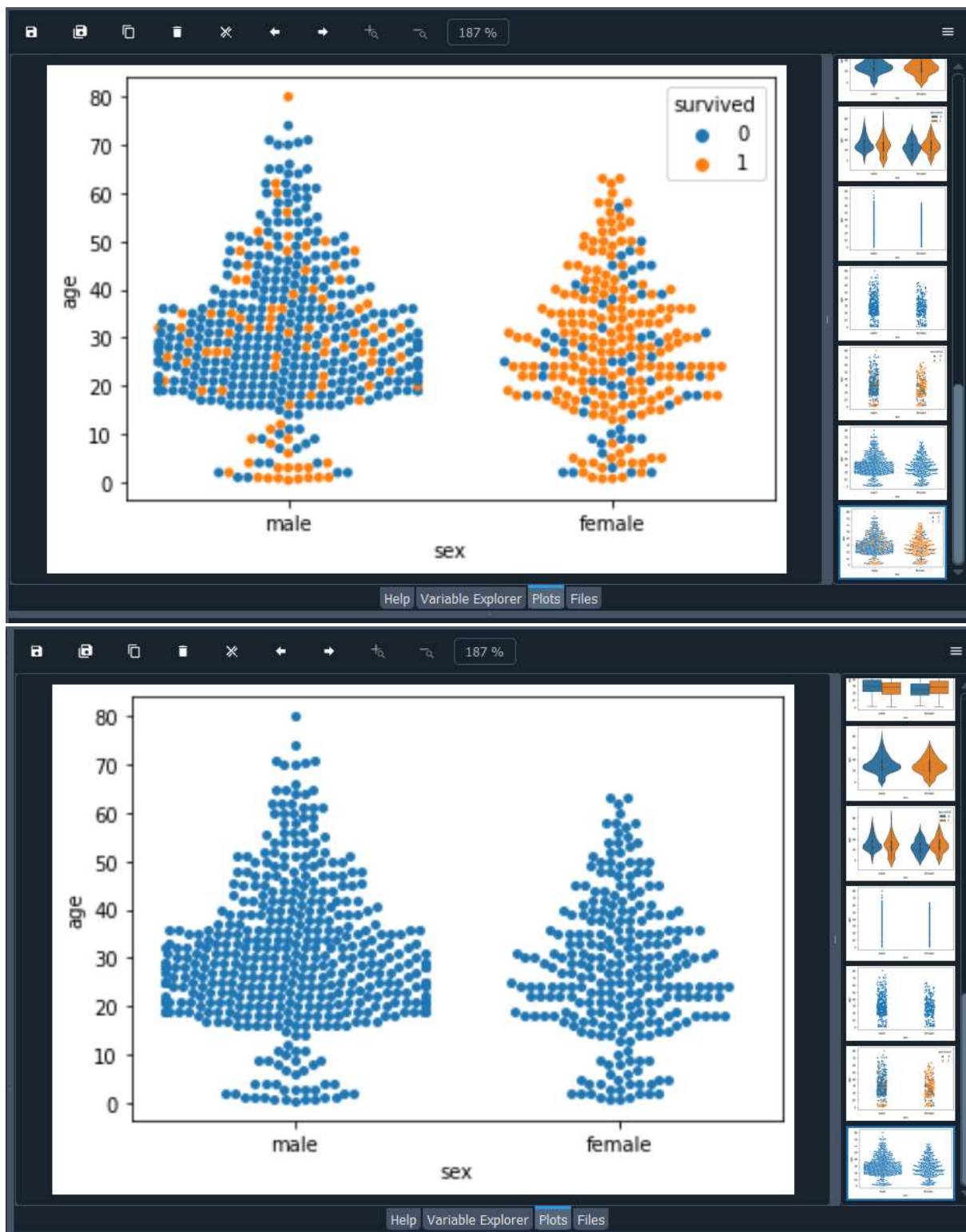
```
sns.swarmplot(x='sex', y='age', data=dataset, hue='survived')
```

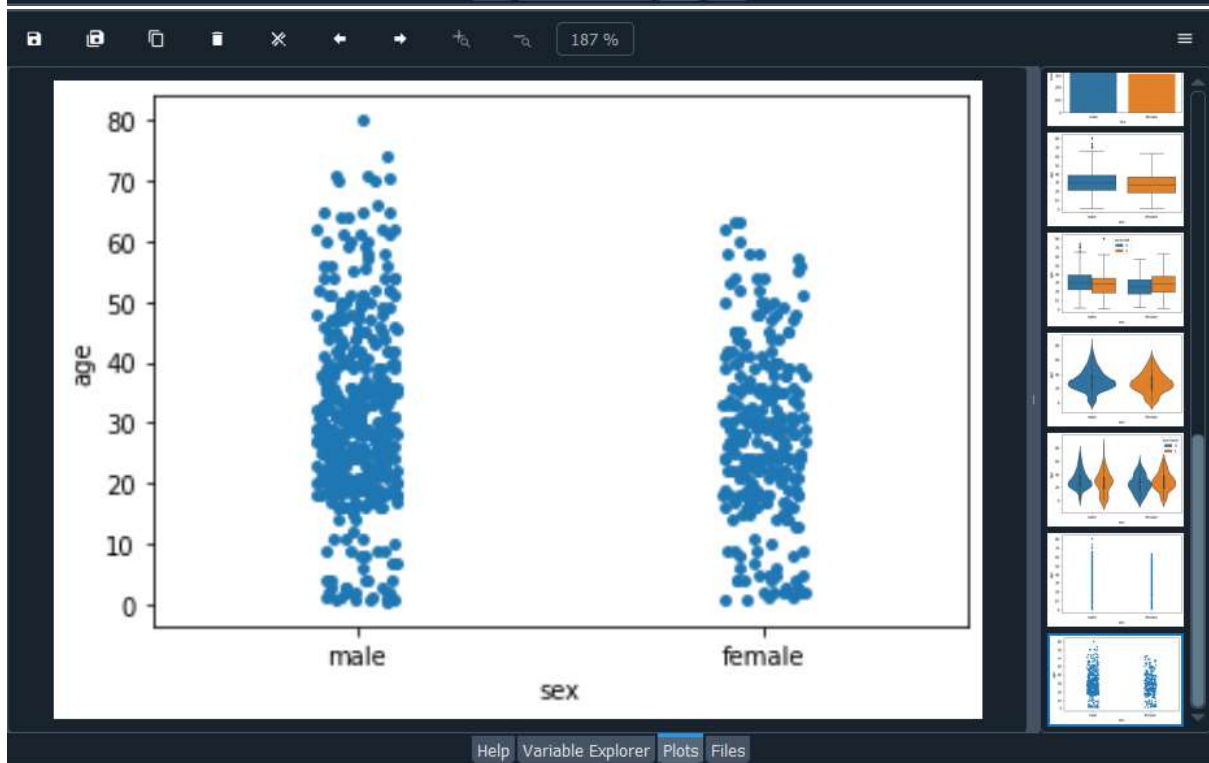
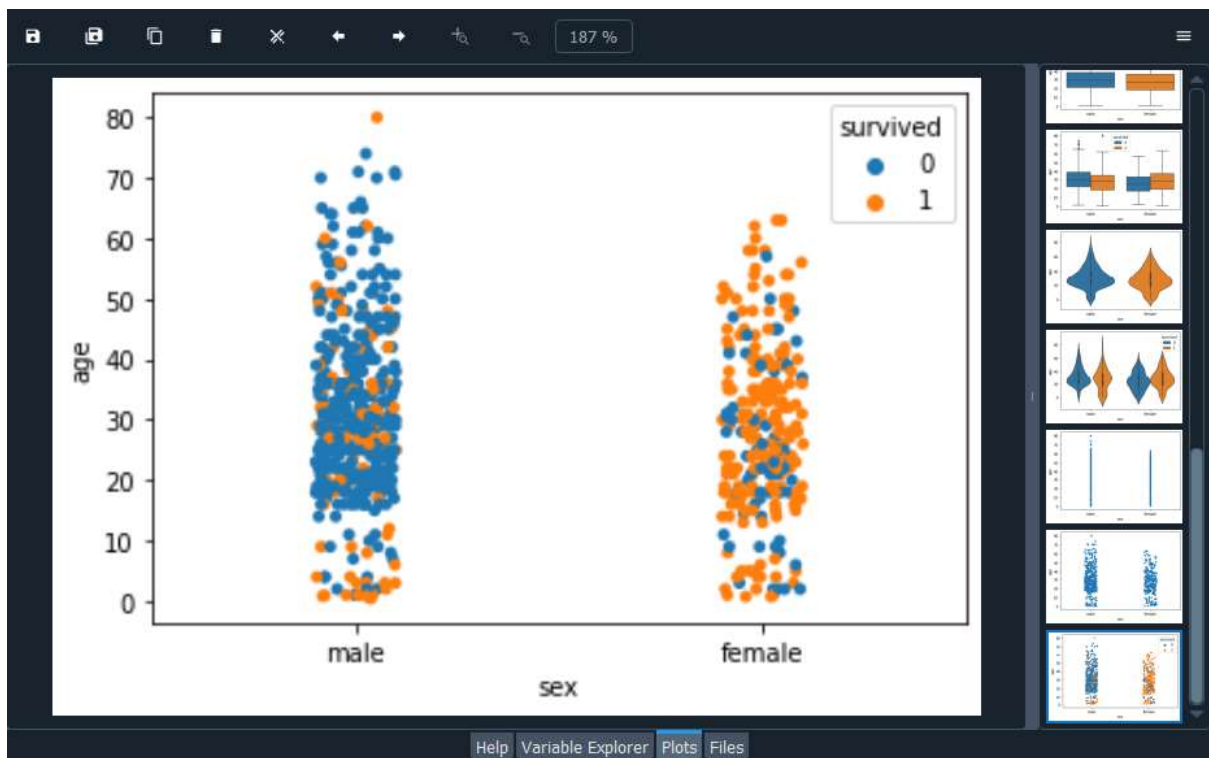
```
import pandas as pd
```

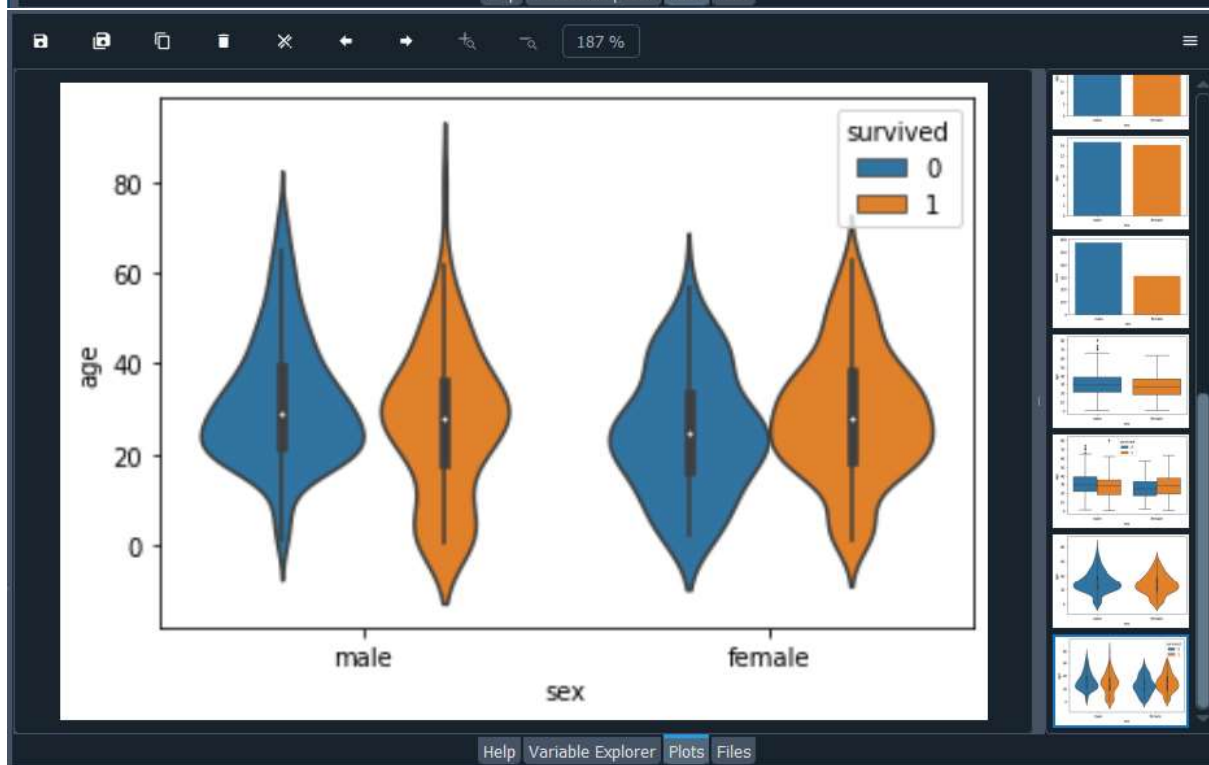
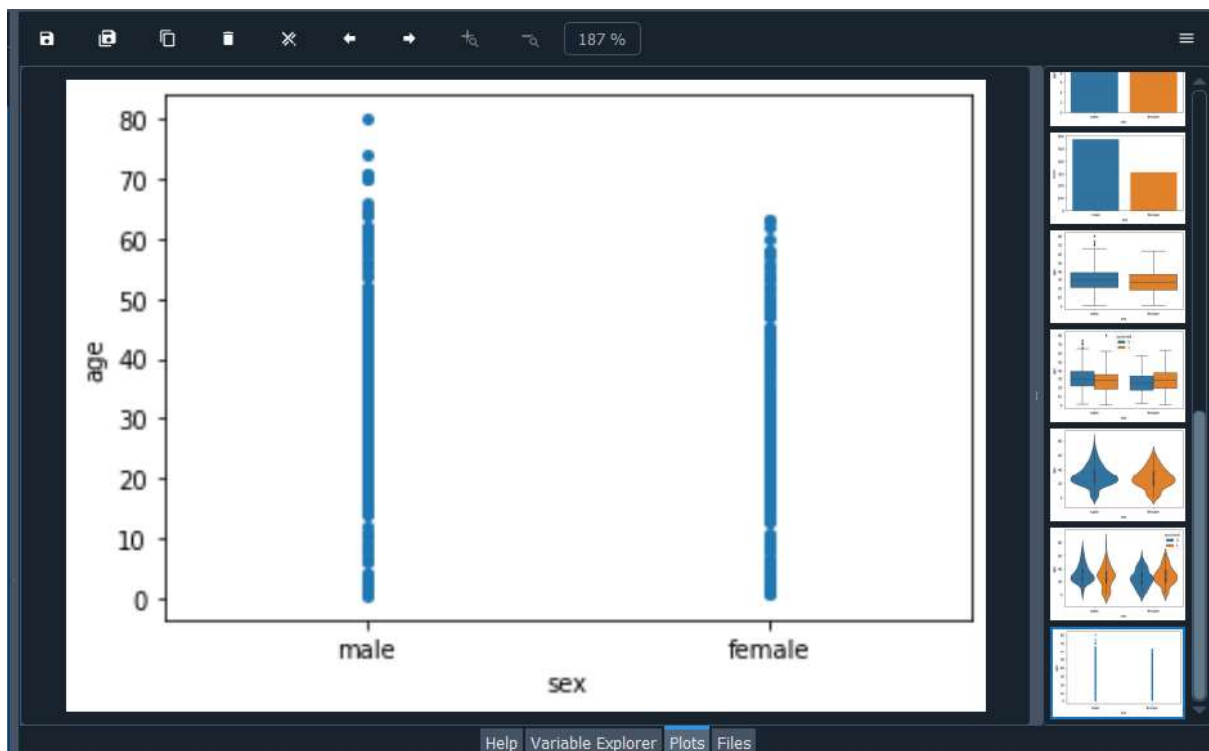
```
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
dataset = sns.load_dataset('titanic')
dataset.head()
```

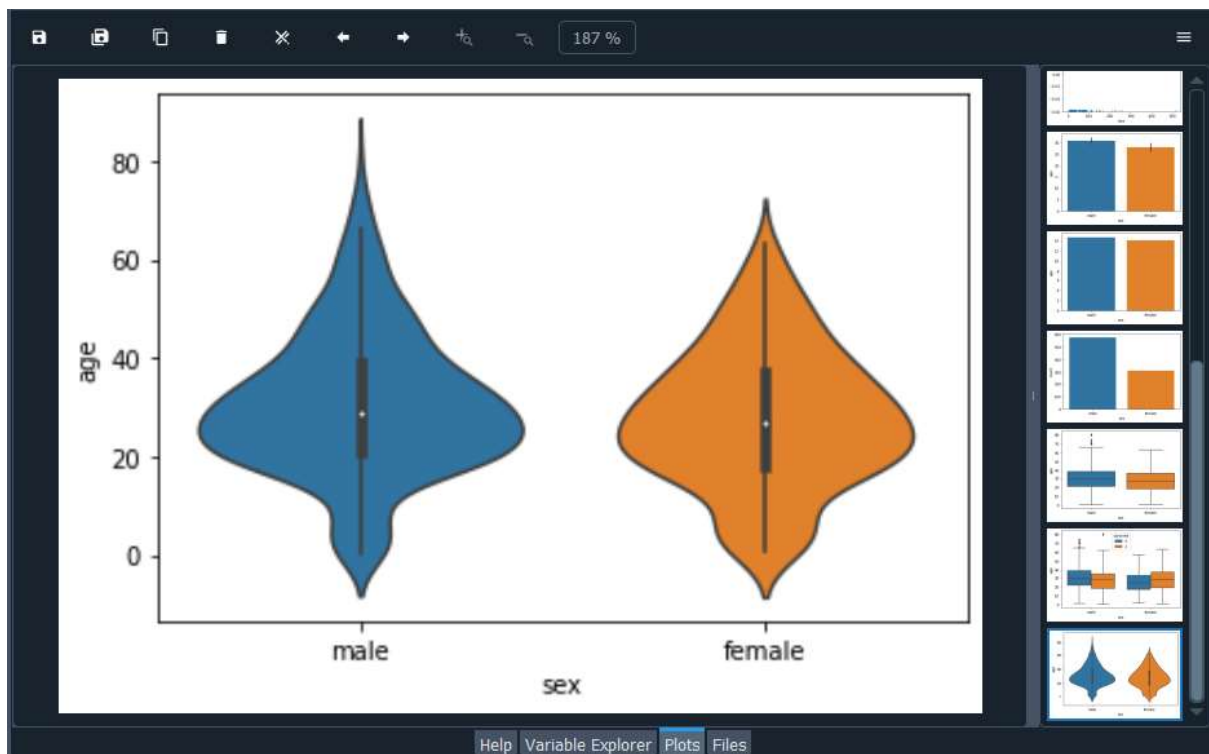
```
import seaborn as sns
dataset = sns.load_dataset('titanic')
sns.histplot(dataset['fare'], kde=False, bins=10)
```

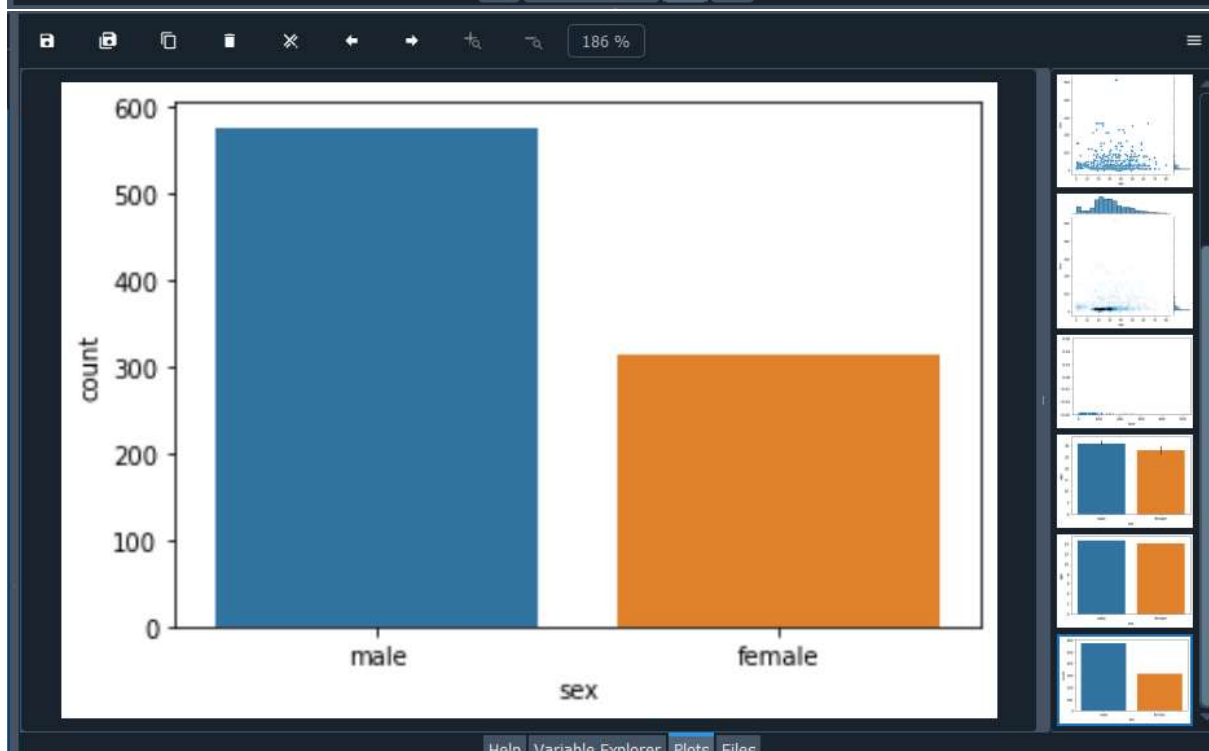
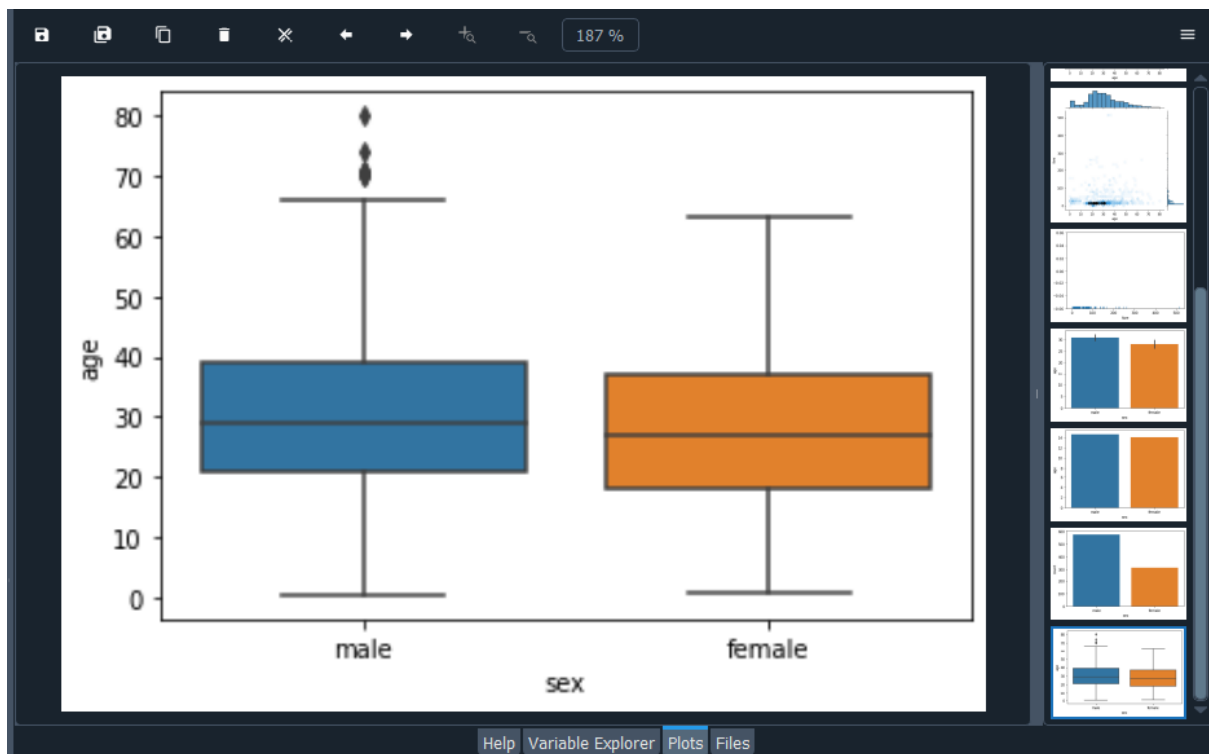
OUTPUT :



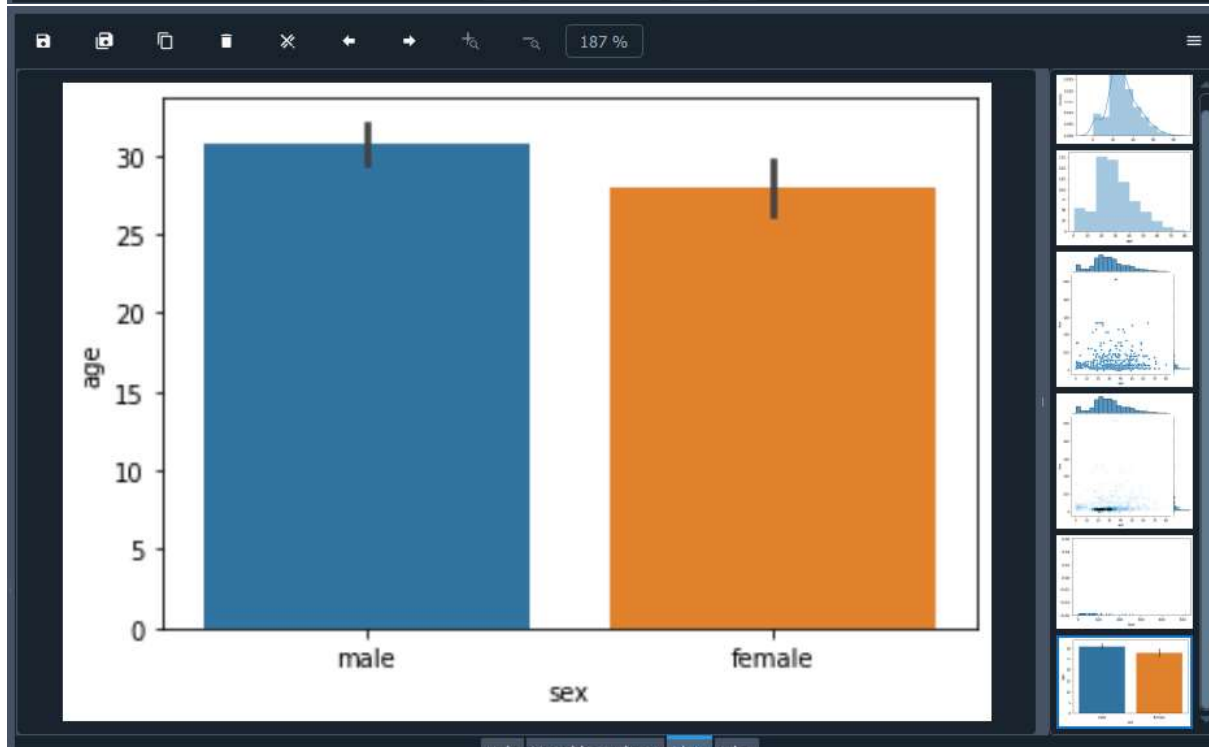
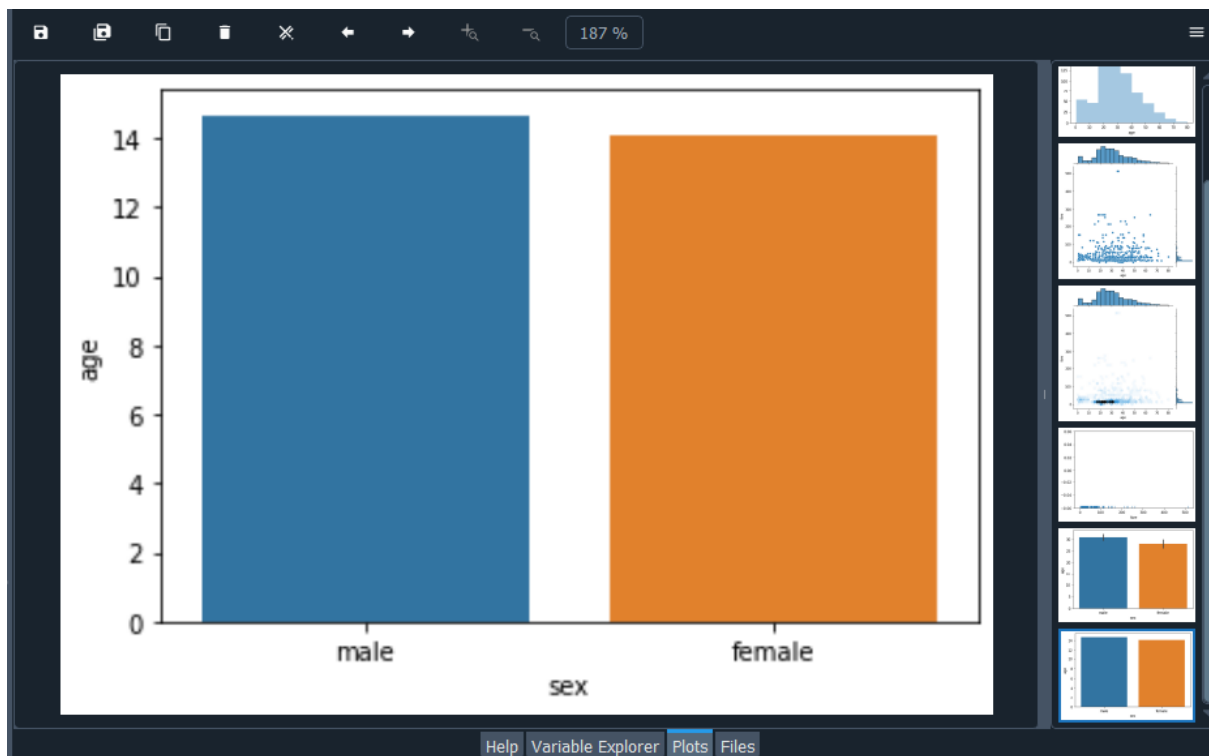


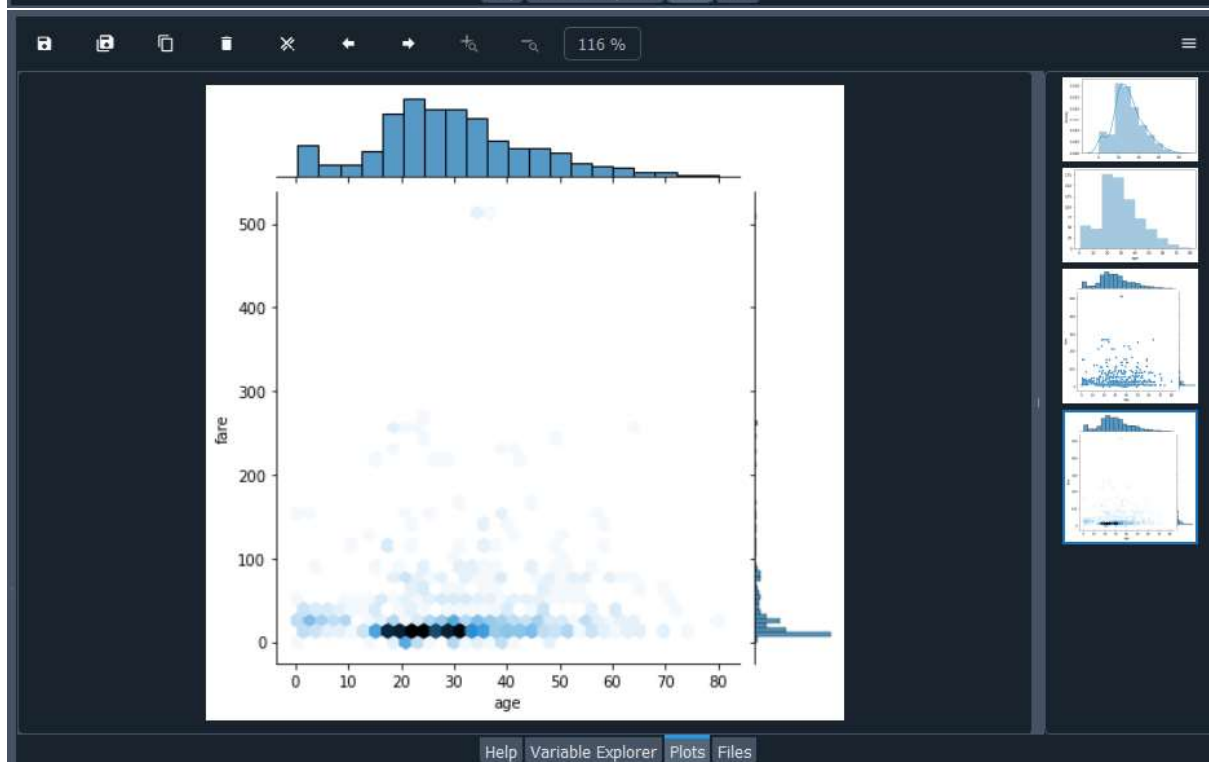
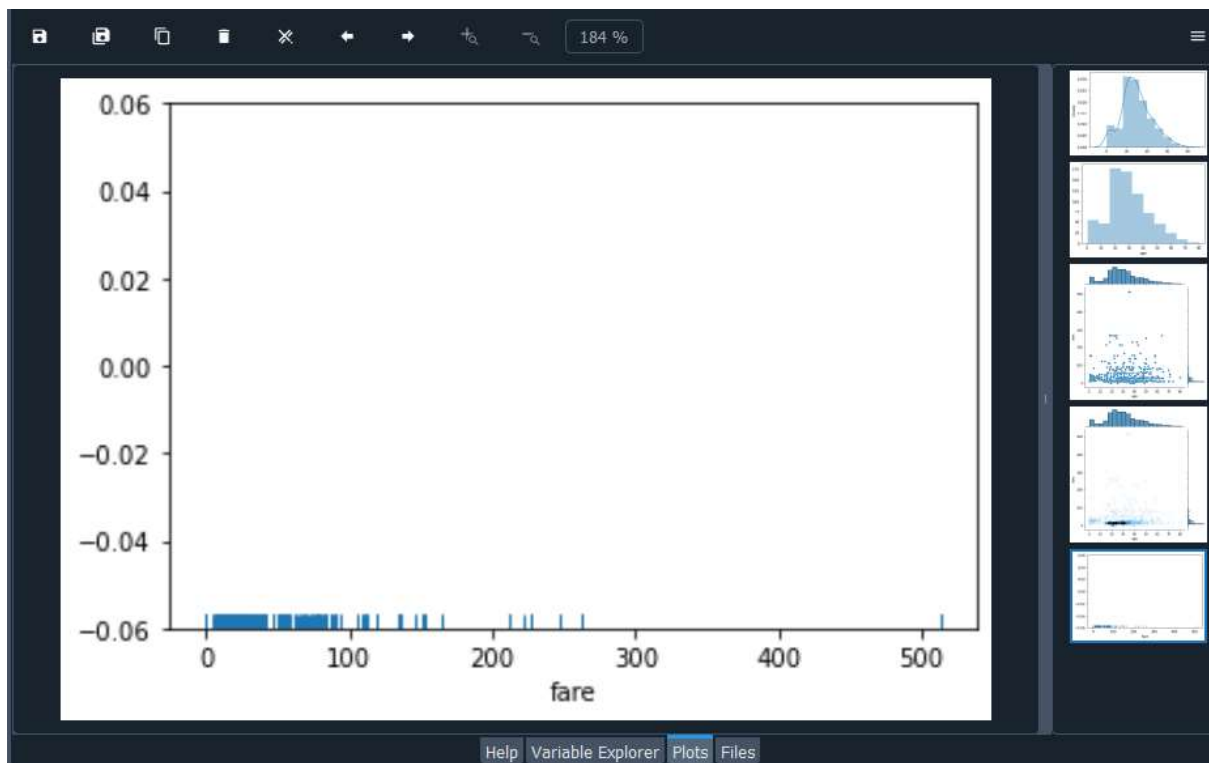


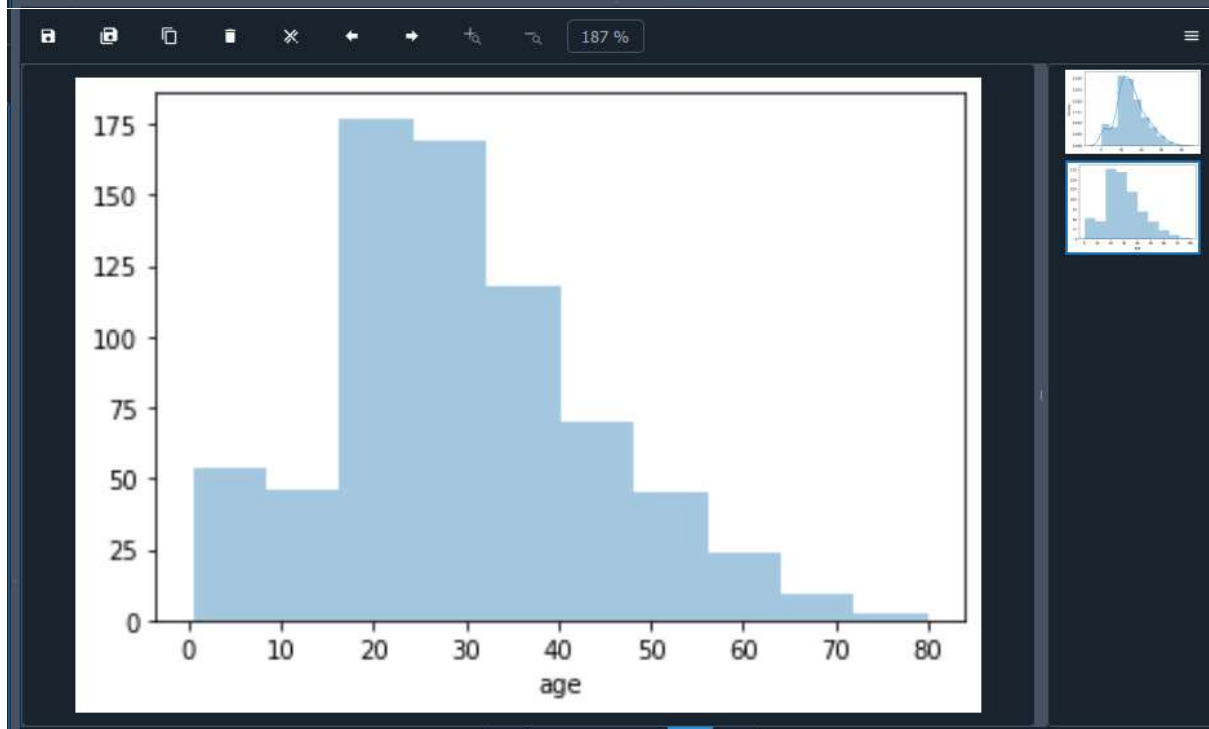
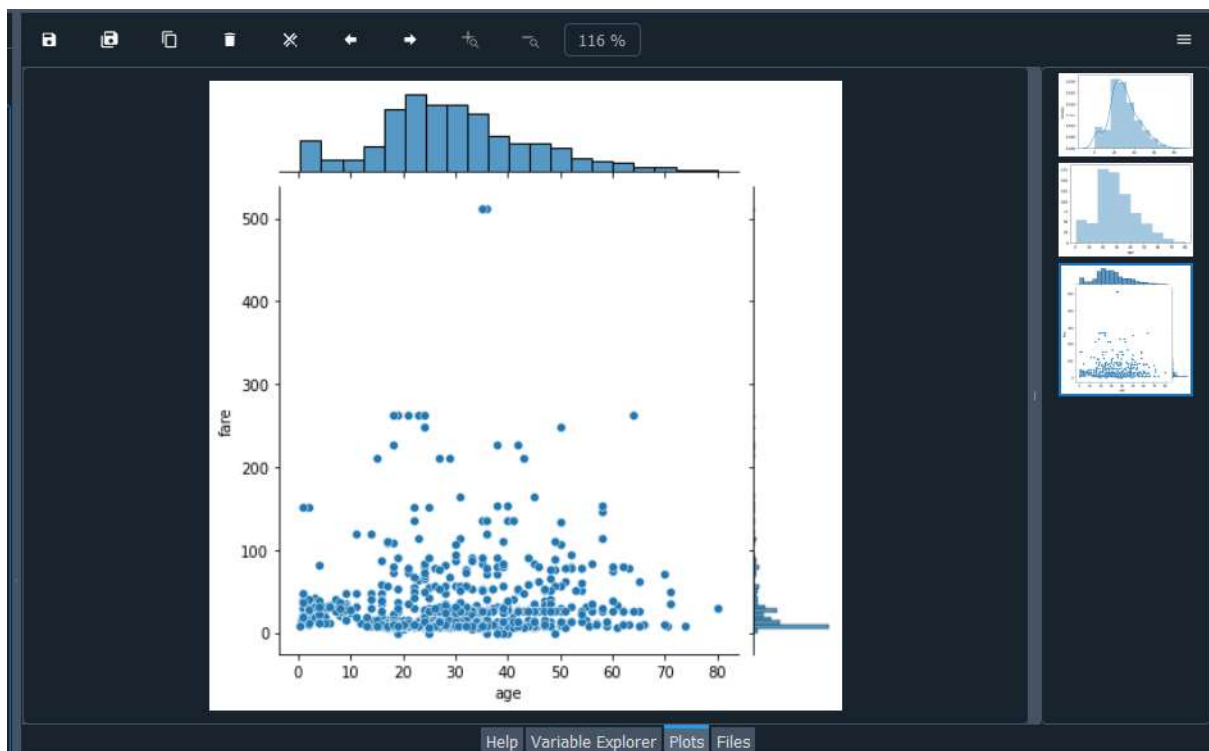


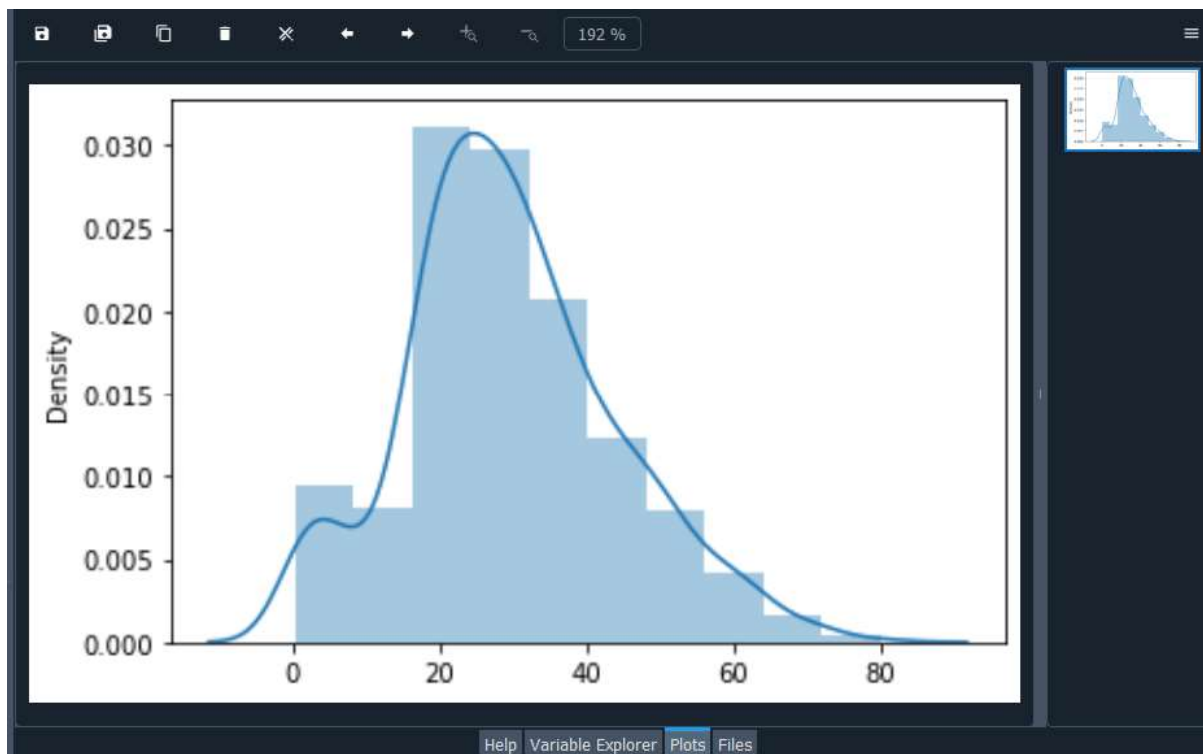












```
Console 1/A X

In [13]: runfile('E:/DSBDA/dsbdapr8.py', wdir='E:/DSBDA')

In [14]: print(dataset)
survived  pclass    sex  age  ...  deck  embark_town  alive  alone
0         0        3  male  22.0  ...  NaN  Southampton    no  False
1         1        1 female  38.0  ...   C   Cherbourg    yes  False
2         1        3 female  26.0  ...  NaN  Southampton    yes  True
3         1        1 female  35.0  ...   C   Southampton    yes  False
4         0        3  male  35.0  ...  NaN  Southampton    no  True
..      ...      ...    ...    ...  ...  ...      ...  ...
886        0        2  male  27.0  ...  NaN  Southampton    no  True
887        1        1 female  19.0  ...   B   Southampton    yes  True
888        0        3 female  NaN    ...  NaN  Southampton    no  False
889        1        1  male  26.0  ...   C   Cherbourg    yes  True
890        0        3  male  32.0  ...  NaN  Queenstown    no  True

[891 rows x 15 columns]

In [15]: dataset.head()
Out[15]:
survived  pclass    sex  age  ...  deck  embark_town  alive  alone
0         0        3  male  22.0  ...  NaN  Southampton    no  False
1         1        1 female  38.0  ...   C   Cherbourg    yes  False
2         1        3 female  26.0  ...  NaN  Southampton    yes  True
3         1        1 female  35.0  ...   C   Southampton    yes  False
4         0        3  male  35.0  ...  NaN  Southampton    no  True

[5 rows x 15 columns]

In [16]: sns.distplot(x = dataset['age'], bins = 10)
C:\Users\vedik\AppData\Local\Temp\ipykernel_15116\3209197554.py:1: UserWarning:
```

