Experiment - 1

Load the titanic dataset and convert into a data frame.

Aim: To perform basic programming exploring data analysis on the titanic dataset using pandas, seaborn and sklearn.

PROCEDURE

Step 1: Load titanic dataset into a dataframe

Step 2: Display the first few row using head.

Step 3: Explore col datatype and check for missing value using and shell, scan();

Step 4: Apply forward fill & backward fill method to the age column.

Step 5: Remove any duplicate head.

Step 6: encode the sex col until Label encoder.

Step 8: Create a pair plot for Decoder.

Step 9: Display conclusion for map.

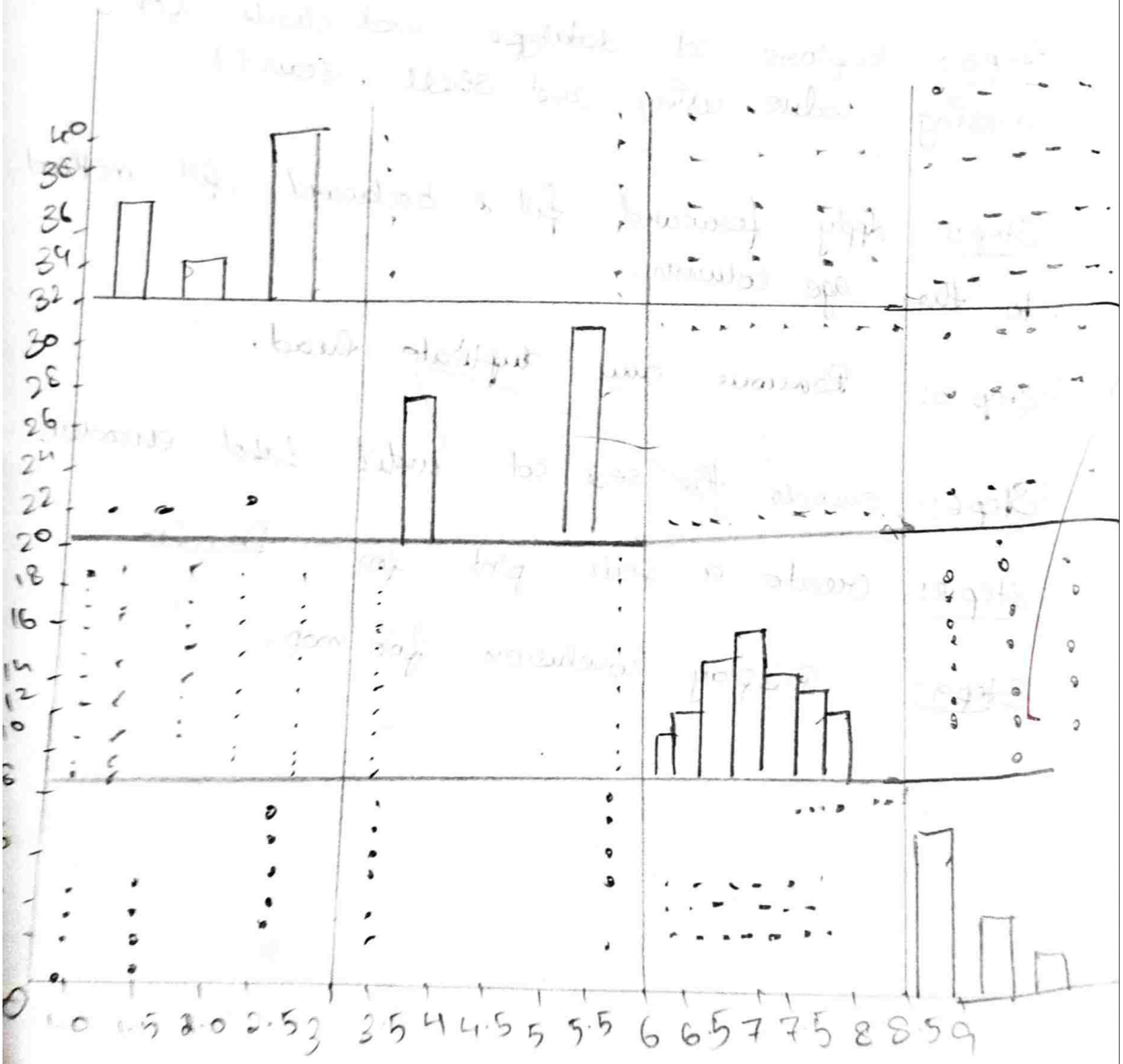
Code:

```
import pandas as pd.
import seaborn as sns
import matplotlib.pyplot as plt
from sklearn.preprocessing import label, standard
scale.

df_sns_load.dataset(titanic)
print(('First 5Rows'))
display(df.head())
print("\n Data Info:")
df.info()
df["age"] = df['age'].fillna(method:(fill))
df['age'] = df['age'].fillna(method.bfill)
df['deck'] = df['deck'].(cat.add.categories
                         (unknown))

df = df.df.dp.duplicates()
le = label Encoder()
df[Sex] = le.fit_transform(df[Sex] type(str))
scaler = standard scaler()
df['fare'] = scaler.fit_transform(df(free)
                                  fillna(0))
Snspairplot(df[['pclass', 'sex', 'age']
plt.show()
plt.figure(fig size = (8,6))]
plt.title("correlation.Heat map")
plt.show.
```

Output:

First, 5 rows:

Survived	class	Sex	age	sibs	fare	emb	class
0	3	M	22	10	7.2	S	Thi...
1	1	F	38	10	11.2	C	Fir...
1	3	F	26	0	7.9	S	Thi...
1	1	F	35	10	53.10	S	Fir...
0	3	M	35	0	8.0	S	Thi...



Result: Load the titanic dataset and convert it into a dataframe is completed succesfully.