

DATA VISUALIZATION ASSIGNMENT

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Files

- sample_data
- train_and_test2.csv

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Editing

```
[4] import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
titan=pd.read_csv('/content/train_and_test2.csv')
```

Question 1

```
[5] fig, axes = plt.subplots(figsize=(10,10))
sns.scatterplot(x='Age', y='Fare', data=titan, ax=axes)
```

<matplotlib.axes._subplots.AxesSubplot at 0x7ff9eb0bacd0>



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Files

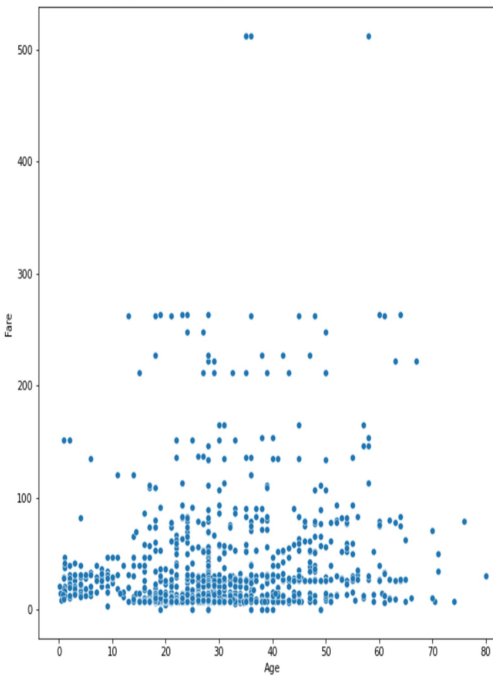
- sample_data
- train_and_test2.csv

+ Code + Text

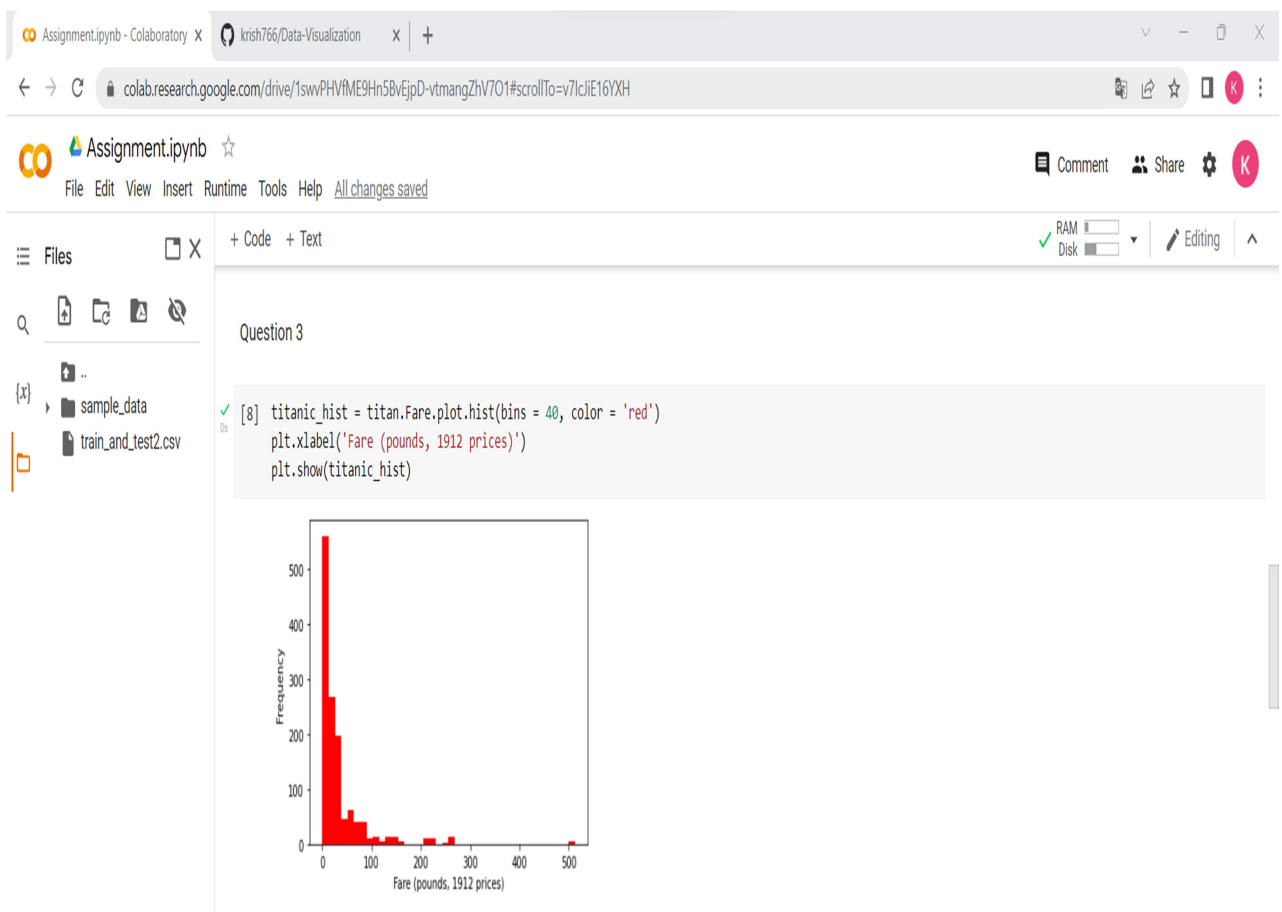
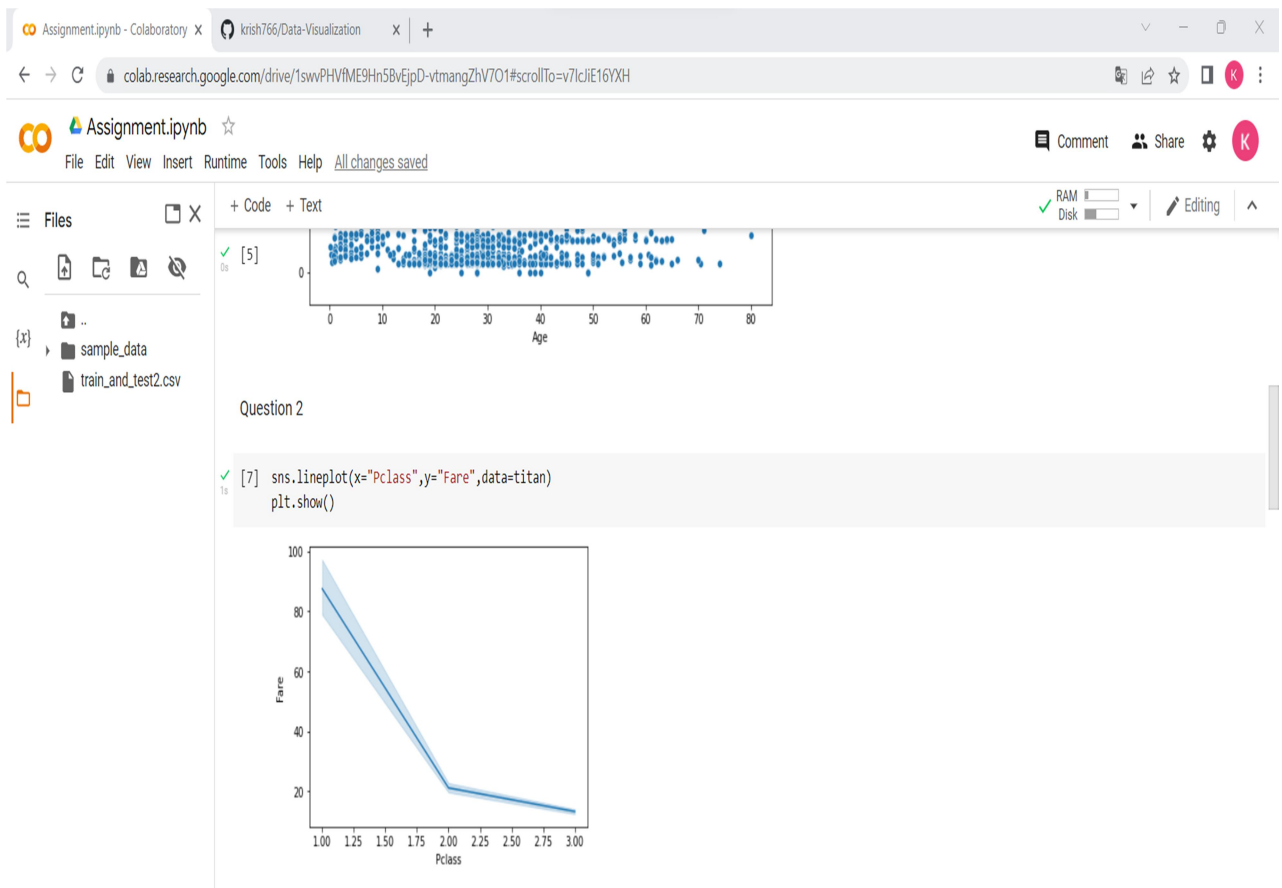
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```
[5] <matplotlib.axes._subplots.AxesSubplot at 0x7ff9eb0bacd0>
```



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Files
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Question 4

```

titanic_pclass_fig, titanic_pclass_ax = plt.subplots()
color = ['red', 'green', 'blue']
count = 0
for name, group in titan.groupby('Pclass'):
    titanic_pclass_ax.plot(group.Age, group.Fare, '.',
        label = name, alpha = 0.7,
        c = color[count])
    count += 1
titanic_pclass_ax.legend(numpoints=1, title = "Passenger class",
    fontsize = 10)
plt.xlabel('Age (years)')
plt.ylabel('Fare (pounds, 1912 prices)')
titanic_pclass_ax.set_xlim(-1, 85)
titanic_pclass_ax.set_ylim(-1, 600)
plt.show(titanic_pclass_fig)

```

Question 5

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Files
+ Code + Text
Question 5

```

[16] pclass_fare_titanic = titan[['Pclass', 'Fare']].pivot(columns =
    'Pclass', values = 'Fare')
box_color = dict(boxes = 'black',
    whiskers = 'black',
    medians = 'red',
    caps = 'blue')
titanic_pclass_boxplot = pclass_fare_titanic.plot.box(color =
    box_color)
plt.xlabel('Passenger class')
plt.ylabel('Fare')
plt.show(titanic_pclass_boxplot)

```

/usr/local/lib/python3.7/dist-packages/matplotlib/compat/_init_.py:1376: VisibleDeprecationWarning: Creating an ndarray from ragged nested sequences (which X = np.atleast_1d(X.T if isinstance(X, np.ndarray) else np.asarray(X))

Question 6

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Question 6

```
[21] contingency_titanic = titan.groupby(['Pclass', 'sibsp']).size().unstack()
titanic_barplot = contingency_titanic.plot.bar(stacked=True,
color = ["yellow", "magenta"])
plt.ylabel("Counts")
plt.xlabel('Passenger class')
plt.xticks(rotation=0)
plt.show(titanic_barplot)
```

