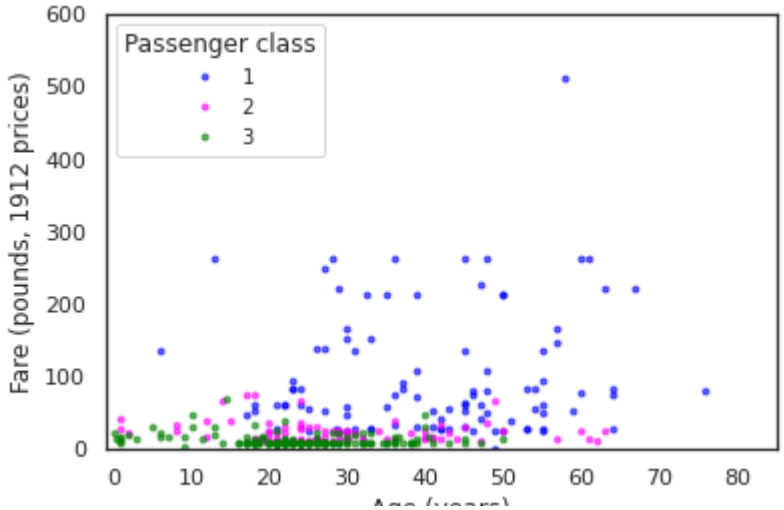
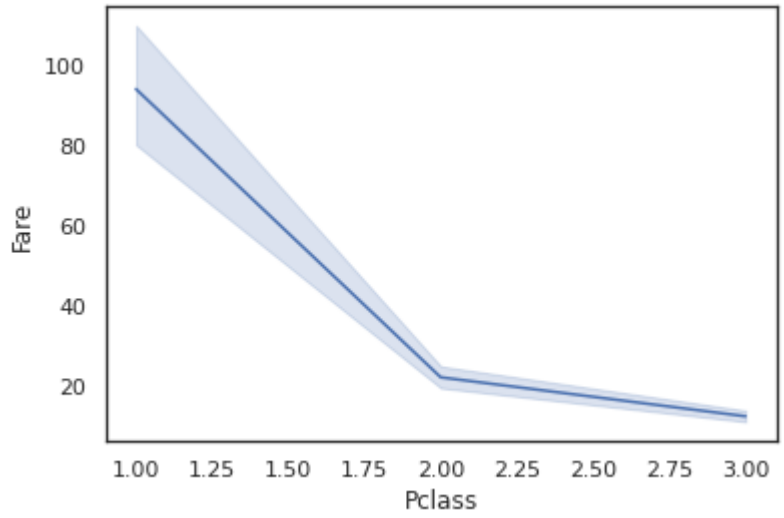
```
import pandas as pd
import matplotlib.pyplot as plt

titanic_filepath = "/content/data.csv"


titanic = pd.read_csv(titanic_filepath)


titanic.head()
```

	PassengerId	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	E
0	892	3	Kelly, Mr. James	male	34.5	0	0	330911	7.8292	NaN	
1	893	3	Wilkes, Mrs. James (Ellen Needs)	female	47.0	1	0	363272	7.0000	NaN	

```
import seaborn as sns
sns.set(style="white",color_codes=True)


titanic_pclass_fig, titanic_pclass_ax = plt.subplots()

color = ['blue', 'magenta', 'green']


count = 0
for name, group in titanic.groupby('Pclass'):
    titanic_pclass_ax.plot(group.Age, group.Fare, '.',
                           label = name, alpha = 0.6,
                           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)
```




```
sns.lineplot(x="Pclass",y="Fare",data=titanic)
plt.show()
```

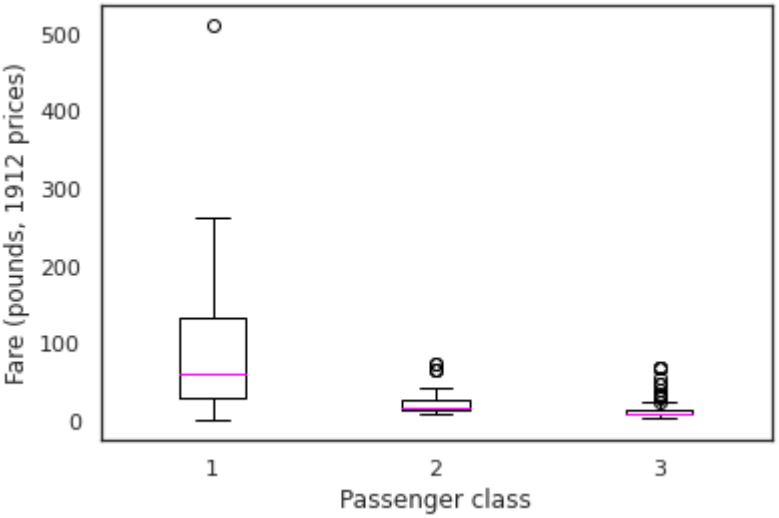



```
import seaborn as sns
sns.set(style="white",color_codes=True)
```

```
titanic_hist = titanic.Fare.plot.hist(bins = 40, color = 'magenta')
plt.xlabel('Fare (pounds, 1912 prices)')

plt.show(titanic_hist)
```


```
pclass_fare_titanic = titanic[['Pclass', 'Fare']].pivot(columns = 'Pclass', values = 'Fare')

box_color = dict(boxes = 'black',
             whiskers = 'black',
             medians = 'magenta',
             caps = 'black')

titanic_pclass_boxplot = pclass_fare_titanic.plot.box(color = box_color)
plt.xlabel('Passenger class')
plt.ylabel('Fare (pounds, 1912 prices)')

plt.show(titanic_pclass_boxplot)
```

```
/usr/local/lib/python3.7/dist-packages/matplotlib/cbook/__init__.py:1376: VisibleDeprec
  X = np.atleast_1d(X.T if isinstance(X, np.ndarray) else np.asarray(X))
```




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