1. We uploaded/inserted the train.csv file to Jupyter notebook and pandas for analysis.

```
[9]: df = pd.read_csv(r'C:\Users\W10\Downloads\train.csv')
```

2. We used describe() function to get the count etc information.

[10]:	df.des	cribe()						
[10]:		Passengerld	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
	max	891.000000	1.000000	3.000000	80.000000	8.000000	6.000000	512.329200

3. We used Info() function to get non-null values information.

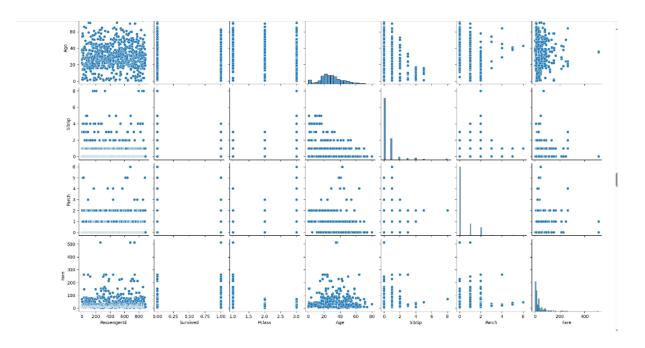
```
[11]: df.info()
      <class 'pandas.core.frame.DataFrame'>
      RangeIndex: 891 entries, 0 to 890
      Data columns (total 12 columns):
       # Column
                 Non-Null Count Dtype
                      -----
       0 PassengerId 891 non-null int64
       1 Survived 891 non-null int64
       2 Pclass
                    891 non-null int64
                    891 non-null object
         Name
       3
      4 Sex
5 Age
                    891 non-null object
                    714 non-null float64
       6 SibSp
                    891 non-null int64
                   891 non-null int64
891 non-null object
      7 Parch
         Ticket
       8
      9 Fare
                    891 non-null float64
      9 Fare
10 Cabin
      10 Cabin 204 non-null object
11 Embarked 889 non-null object
      dtypes: float64(2), int64(5), object(5)
      memory usage: 83.7+ KB
```

4. We used value\_counts() function to get all the relevant information about the passengers.

[12]: [12]:	: df.value_counts()												
	PassengerId Cabin		Survived Pclass Embarked		Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fai	
	2		1		1	Cumings, Mrs. John Bradley (Florence Briggs Thayer)	female	38.0	1	0	PC 17599	71	
	833	C85		C		1							
	4		1		1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53	
	000	C123		S		1							
	7		0		1	McCarthy, Mr. Timothy J	male	54.0	0	0	17463	51	
	625	E46		S		1							
	11		1		3	Sandstrom, Miss. Marguerite Rut	female	4.0	1	1	PP 9549	16	
	000	G6		S	_	1			_	_		_	
	12		1	_	1	Bonnell, Miss. Elizabeth	female	58.0	0	0	113783	26	
	500	C103		S		1							
	872		1		1	Beckwith, Mrs. Richard Leonard (Sallie Monypeny)	female	47.0	1	1	11751	52	
	542	D35	_	S	_	1			_	_		_	
	873		0	_	1	Carlsson, Mr. Frans Olof	male	33.0	0	0	695	5.	
	00	B51 B53		5		Detter Man Thomas 32 (131), Alexander (131)	female	FC 0			44767		
	880 583	C50	1	С	1	Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)	тетате	56.0	0	1	11767	83	
	888	C30	1	C	1	Graham, Miss. Margaret Edith	female	10.0	0	0	112053	36	
	000	B42	1	5	1	1	I CIII a T C	19.0	V	U	112055	36	
	890	042	1		1	Behr, Mr. Karl Howell	male	26.0	a	0	111369	36	
	000	C148	-	С	-	1	mazc	20.0	-	•	111505	-	
			Lone		02 4+	pe: int64							

5. We used pairplot() functions to see the figures in graphical format

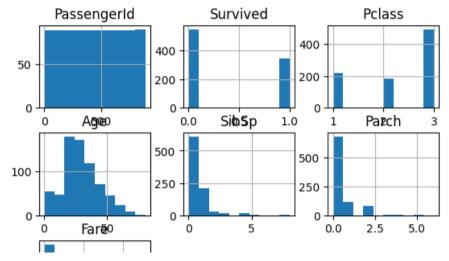


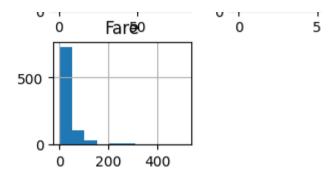


6. We took heatmap() example to show it in figure.

7. We used hist() function to see it in histogram.

```
[15]: df.hist()
```

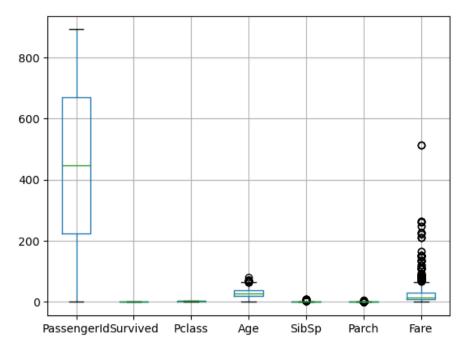




## 8. We used boxplot() function.

```
[16]: df.boxplot()
```

[16]: <Axes: >



## 9. We used scatterplot() function.

```
[18]: df.plot.scatter(x='PassengerId', y = 'Fare')
```

[18]: <Axes: xlabel='PassengerId', ylabel='Fare'>

