of.head()	1 3 Heikkinen, Miss. Laina female 26.0 0 0 STON/O2. 3101282 7.9250 NaN S
<pre><class #="" 'panda="" 8="" column<="" columns="" data="" rangeindex:="" th=""><th>891 non-null int64 891 non-null object 891 non-null object 891 non-null object 714 non-null float64 891 non-null int64 891 non-null int64 891 non-null object 891 non-null object 891 non-null object 891 non-null object 891 non-null float64 204 non-null object</th></class></pre>	891 non-null int64 891 non-null object 891 non-null object 891 non-null object 714 non-null float64 891 non-null int64 891 non-null int64 891 non-null object 891 non-null object 891 non-null object 891 non-null object 891 non-null float64 204 non-null object
11 Embarked dtypes: float memory usage: 7]: df.describe() 7]: Passenge count 891.000 mean 446.000 std 257.353 min 1.000 25% 223.500	889 non-null object 64(2), int64(5), object(5) 883.7+ KB  Prid Survived Pclass Age SibSp Parch Fare 000 891.00000 891.00000 714.00000 891.00000 891.00000 891.00000 000 0.383838 2.308642 29.699118 0.523008 0.381594 32.204208 842 0.486592 0.836071 14.526497 1.102743 0.806057 49.693429 000 0.000000 1.000000 0.420000 0.000000 0.000000 0.000000 000 0.000000 2.000000 20.125000 0.000000 0.000000 7.910400
version, it version, it version, it version, it version, it versions.  PassengerId  Survived	1.00000 3.00000 38.00000 1.00000 0.00000 512.329200  RSHA\AppData\Local\Temp\ipykernel_9232\1134722465.py:1: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a fixed select only valid columns or specify the value of numeric_only to silence this warning.  RSHA\AppData\Local\Temp\ipykernel_9232\1134722465.py:1: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a fixed select only valid columns or specify the value of numeric_only to silence this warning.  RSHA\AppData\Local\Temp\ipykernel_9232\1134722465.py:1: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a fixed select only valid columns or specify the value of numeric_only to silence this warning.
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	0.081629 -0.005007 -0.035322 -0.077221 -0.338481 ed, dtype: float64  ing/Null Values  any()  False True
SibSp Parch Ticket Fare Cabin Embarked dtype: bool  1]: sum(df.Cabin 687  2]: sum(df.Age.is	False False False False True True True
4]: sum(df.Embarl	"].fillna(df["Embarked"].mode()[0],inplace=True)  erld Survived Pclass Age SibSp Parch Fare 000 891.000000 891.000000 891.000000 891.000000 891.000000
	000       0.000000       1.000000       0.000000       0.000000       0.000000         000       0.000000       22.000000       0.000000       0.000000       7.910400         000       0.000000       3.000000       29.699118       0.000000       0.000000       14.454200         000       1.000000       35.000000       1.000000       0.000000       31.000000         000       1.000000       80.000000       6.000000       512.329200
0.8 -	
C:\Users\AKAF version, it w	100 200 300 400 500  df.corr(),annot=True)  RSHA\AppData\Local\Temp\ipykernel_9232\4277794465.py:1: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a fixed default to False. Select only valid columns or specify the value of numeric_only to silence this warning.  b(df.corr(),annot=True)
Age -	- 0.8
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800 - 900 - 200 - 1.0 - 0.8 -	sgrid.PairGrid at 0x22164ea6850>
1.5 -	
80 - 60 - 20 - 0 - 8 - 6 -	
0 - 4 - 4 - 4 - 2	
sns.barplot(x	x=df["Sex"], y=df["Survived"], ci=0)  RSHA\AppData\Local\Temp\ipykernel_9232\2482959670.py:1: FutureWarning:
sns.barplot <axes: xlabel<br="">0.7 - 0.6 - 0.5 -</axes:>	ameter is deprecated. Use `errorbar=('ci', 0)` for the same effect.  c(x=df["Sex"],y=df["Survived"],ci=0)  L='Sex', ylabel='Survived'>
0.4 - 0.3 - 0.2 - 0.1 - 0.0	male female Sex
<pre>C:\Users\AKAF The `ci` para sns.barplot</pre>	x=df["Embarked"],y=df["Survived"],ci=0)  RSHA\AppData\Local\Temp\ipykernel_9232\2962621836.py:1: FutureWarning:  ameter is deprecated. Use `errorbar=('ci', 0)` for the same effect.  c(x=df["Embarked"],y=df["Survived"],ci=0)  = 'Embarked', ylabel= 'Survived'>
0.2 - 0.1 -	S C Q Embarked
C:\Users\AKAF The `ci` para	x=df["Parch"],y=df["Survived"],ci=0)  RSHA\AppData\Local\Temp\ipykernel_9232\2317442107.py:1: FutureWarning:  ameter is deprecated. Use `errorbar=('ci', 0)` for the same effect.  c(x=df["Parch"],y=df["Survived"],ci=0)  L='Parch', ylabel='Survived'>
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Outlier Detection  Signature of the state of	Parch on
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Passenge 4]: sns.boxplot(0 4]: <axes:> 80 - 70 - 60 - 50 -</axes:>	eridSurvived Pclass Age SibSp Parch Fare  off Age)
40 - 30 - 20 - 10 - 0 -	off.Age)
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20 - 15 - 10 - 5 3]: sns.boxplot(0	
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0.5 - 0.0 4]: p99 = df.Sibs 5]: df = df[df.Sibs 6]: sns.boxplot(doing) 6]: <axes:></axes:>	
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0.5 - 0.0 1]: sns.boxplot(0 1]: <axes:></axes:>	df.Parch)
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0.0	0  off["Fare"])
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2]: sns.boxplot(0 2]: <axes:> 35 - 30 - 25 -</axes:>	df.Fare)
20 - 15 - 10 - 5 - 0 - Splitting Deper	ndent and Independent Variables
3]: x = df.drop(d # Independent 4]: x.head() 4]: Pclass Se 0 3 mal 2 3 femal 4 3 mal 5 3 mal	columns=["Survived","PassengerId","Name","Ticket","Cabin"],axis=1) t variables should be in df or 2d array
y = pd.Series  y.head()  from sklearn	s(df["Survived"])  ed, dtype: int64  preprocessing import LabelEncoder
B]: le = LabelEnd  B]: x["Sex"] = le  C]: x.head()  C]: Pclass Sex  C	
print(le.class ['female' 'ma  3]: mapping=dict()  4]: mapping  4]: {'female': 0,  5]: le1 = LabelEn  6]: x["Embarked"]	sses_) ale'] (zip(le.classes_,range(len(le.classes_)))) - 'male': 1}
2 3 0 4 3 1 5 3 1 9 2 0 8]: print(le1.cla	
mapping1=dict mapping1  ('C': 0, 'Q':  Feature Scaling  from sklearn ms = MinMaxSc  x_Scaled = pc	t(zip(le1.classes_, range(len(le1.classes_))))  1, 'S': 2}  preprocessing import MinMaxScaler caler()  d.DataFrame(ms.fit_transform(x), columns = x.columns)
x_Scaled.head B]: Pclass Sex	Age SibSp Parch Fare Embarked 0.358974 0.333333 0.0 0.195924 1.0 0.461538 0.00000 0.0 0.214165 1.0