

titanic = pd. read_csv ("titanic_csv")

Location of csv

Passenger Id	Survied	Pclass	mil Name	Sex	Age	Sibsp	Parch	175	Fare
1.	0	3	owen Harris	male	220	1,	0	A 52771	7. 28
2 3		3	cumrig Larina Futrelle	Female Female	26.0	0	0	• 6 6	7.925 53.100
890 891	0	1 3	Behr Dooley	male male	26.0 32.0	0	0		30,0000 7,7500
891 TOWS X1	2 column	s.	×			Cab	m	Embar	Ked
	4		"-titanic .csv",		4	NA1 C85 NA C12 C14	5 N 3	SC 59 C	1 5

["Fare"])

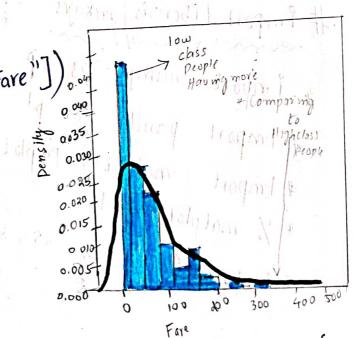
titanic_head()

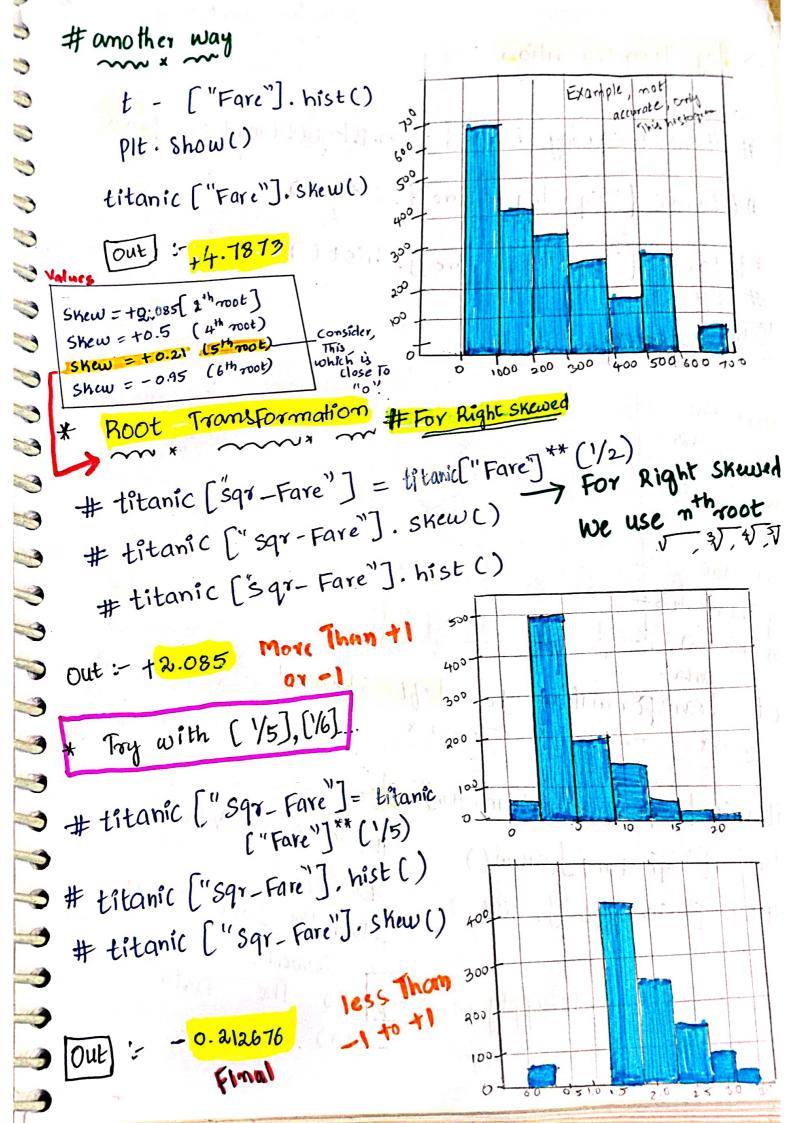
Out

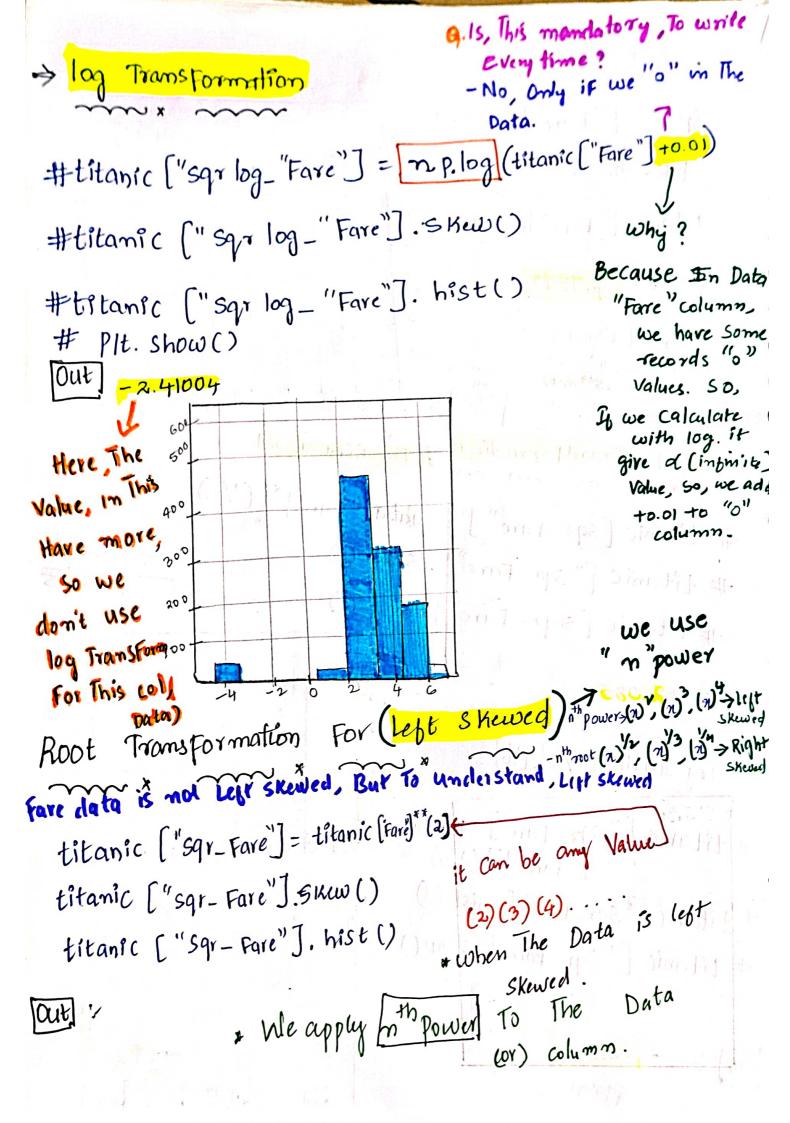
		į "	
	Fare		
0	1.:	2500	4
7	71	.2833	
2	1.	9250	
3	5	3.1000	
4	8	.0500	

Particular Column

Jout' + 4.7873

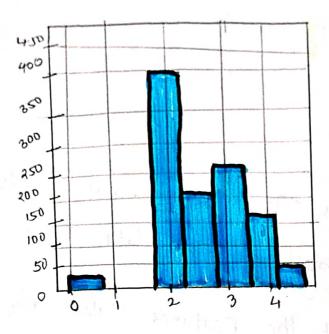






```
* Exponential
    titanic ["sqr-exp Fore"] = mp. enp (titanic ("Fare"])
    titanic ["sqr-exp Fare"]. skew()
                                             I another method
                                                 For Left Skewed
    titanic ["Sqr_enp Fare"]. hist ()
                                                   Distribution
                                           * Evaluates e1x For Each
     Plt. Show
                                              Element in The given
                                                 Input.
  * Reciprocal Transformation
     titanic [Rec- 7"] = 1/(titanic ["Fare"]+0.01)
                                            Reciprocal is that
     titanic ["Rec-Fare"] . skew()
                                             We divide Every value
      titansc ["Rec-Fare"]. hist()
                                              with (1)/(column) +0.0
                                                  ok The
       plt. show ()
                                                            to Elimn
                                                           "o" value
                                                      In The Data.
        BOXCOX Transformation
                                 A (lamba) Varies From -5 to+
   Fare
   7350
                     is The response Variable and
                           => In This Transformation, all Values o
in the second
      .: Where X
                           1" are Considered and The optimal
Value for a given Variables are selected.
and the same
119
```

```
If we don't write This
    from scipy import stats
                                           +0.01 (01) +1 (User define)
# Stats. box cox (titanic [Fare"] +0.01)
           (array ([2.3844558, 6.43357655, 2512739737.
                     2.607914 ) 5.7648427 ,
                                                        Which ever
   from help
                                                           gives best
   we see Two return. Values
      -1. array values (boxcox)
      2. optimal Lamda parameter (manlog)-
                                               Muttiple Variable assignmen
  # Fitting data, Fitting Lambda
# titanic ["Fare_boxcox"], param = stats.boxcox
                                      (titanic ["Fare"]+1)out :- a,b = 7
# print ("\lambda", param) (or) param
                   [Out]: -0.09
     titanic ["Fare-boxcox"]. Skew ()
                                           lowest values
                                             while Compare with
                out : -0.04
                                                 Other Transformations
Code
  # titanic [ "Fare - boxcox], param = stats. boxcox (titanic. Fare +i
  # titanic ["Fare-box cox]. hist ()
 # titanic ["Fare-boxcox]. Skew()
              - 0.04
```



4/4/22

5:30 pm