TASK-1

```
================== RESTART: C:\python\sprint3\taskpractice3.py
Mean of Age: 29.69911764705882
Median of fare paid by passengers: 14.4542
0    S
Name: Embarked, dtype: object
            Mean    Median    Mode
Pclass
1      84.154687  60.2875  26.55
2      20.662183  14.2500  13.00
3      13.675550   8.0500   8.05
mean      0.523008
median    0.000000
Name: SibSp, dtype: float64
Skewness of fare value 4.787316519674893
positively skewed
kurtosis value of age: 0.17827415364210353
Leptokurtic distribution
Skewness value parch 2.7491170471010933
Not symetically distributed
It's not an normal distribution
It's not an normal distribution
Skewness value of fare: 4.787316519674893
Skewnwss value of age: 0.38910778230082704
Fare values are more skewed
kurtosis value of fare: 33.39814088089868
Kurtosis value of age: 0.17827415364210353
Fare has more extreme values
```
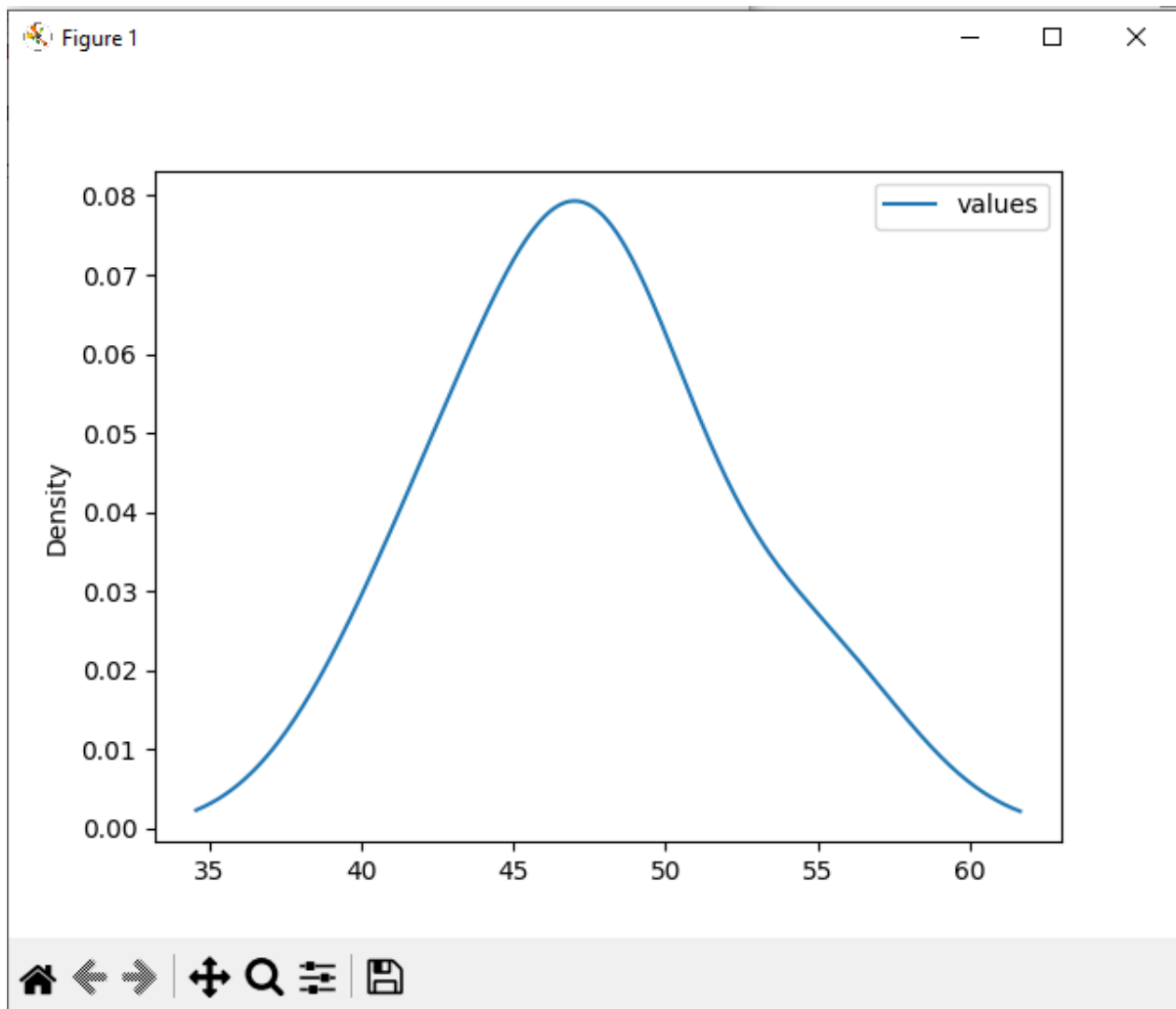
TASK-2

```
================== RESTART: C:\python\sprint3\taskpractice3.py ==================
standardized value of salary: [-1.4083645  -0.6799001   0.04856429  0.53420722
1.50549309]
standardization value of experience [-1.41421356 -0.70710678  0.         0.7071
0678  1.41421356]
   Exp  Salary  Standardized_exp  Standardized_salary
0    1    1000         -1.414214            -1.408365
1    2    2500         -0.707107            -0.679900
2    3    4000          0.000000             0.048564
3    4    5000          0.707107             0.534207
4    5    7000          1.414214             1.505493
mean of standardized experience: 0.0
standard deviation of Standardized_exp: 0.9999999999999999
Mean of standardized salary: 0.0
standard deviation of Standardized salary: 1.0
|
```

TASK-3

```
==================
       values
0   48.884797
1   44.640250
2   48.127275
3   46.976548
4   54.882660
5   41.347540
```


TASK-4

```
----------------- RESTART: C:\python\sprints\taskpractices.py -----------
Z value 2.3076923076923075
Lower limit 168.22602341004895
Upper limit 170.77397658995105
The null hypothesis is rejected,There is significant difference
```

```
Z-critical: 1.1347341281011405
Lower limit 30.86526587189886
Upper limit 33.134734128101144
confidence 80.0
Z-critical: 1.4564154860515606
Lower limit 30.54358451394844
Upper limit 33.45641548605156
confidence 90.0
Z-critical: 2.059836215320675
Lower limit 29.940163784679324
Upper limit 34.05983621532067
confidence 98.0
|
```

TASK-5

```
================== RESTART: C:\python\sprint3\taskpractice3.py ==========
Lower limit: 18.061764604523756
Upper limit: 21.938235395476244


================== RESTART: C:\python\sprint3\taskpractice3.py ==========
t-test:7.971
p value 8.613918695127224e-09
There is a difference in medication, reject the null hypothesis.
Lower limit: 18.061764604523756
Upper limit: 21.938235395476244
|
```