|  |  |
| --- | --- |
| Activity | Data Type |
| Number of beatings from Wife | Discreate Data Type |
| Results of rolling a dice | Discreate Data Type |
| Weight of a person | Continuous Data Type |
| Weight of Gold | Continuous Data Type |
| Distance between two places | Continuous Data Type |
| Length of a leaf | Continuous Data Type |
| Dog's weight | Continuous Data Type |
| Blue Color | Nominal Data Type |
| Number of kids | Discreate Data Type |
| Number of tickets in Indian railways | Continuous Data Type |
| Number of times married | Discreate Data Type |
| Gender (Male or Female) | Categorical Data |

Q1) Identify the Data type for the Following:

Q2) Identify the Data types, which were among the following

Nominal, Ordinal, Interval, Ratio.

|  |  |
| --- | --- |
| Data | Data Type |
| Gender | Nominal Data Type |
| High School Class Ranking | Ordinal Data Type |
| Celsius Temperature | Interval Data Type |
| Weight | Ratio Data Type |
| Hair Color | Nominal Data Type |
| Socioeconomic Status | Ordinal Data Type |
| Fahrenheit Temperature | Interval Data Type |
| Height | Ratio Data Type |
| Type of living accommodation | Nominal Data Type |
| Level of Agreement | Oradinal Data Type |
| IQ(Intelligence Scale) | Interval Data Type |
| Sales Figures | Ratio Data Type |
| Blood Group | Nominal Data Type |
| Time Of Day | Nominal Data Type |
| Time on a Clock with Hands | Interval Data Type |
| Number of Children | Interval Data Type |
| Religious Preference | Nominal Data Type |
| Barometer Pressure | Interval Data Type |
| SAT Scores | Interval Data Type |
| Years of Education | Interval Data Type |

Q3) Three Coins are tossed, find the probability that two heads and one tail are obtained?

**=>** The total possible outcome is 2^3=8

Intrested outcome is two H and one T=3

Probability = interested outcom/total outcome

= 3/8 = 0.375

= 0.375\*100

= **37.5%**

Q4) Two Dice are rolled, find the probability that sum is

1. Equal to 1
2. Less than or equal to 4
3. Sum is divisible by 2 and 3

**There is total Possible outcome is = 36**

**Ans of a)**

Intrested Outcome is sum of both dies value is 0 = 0

Probability = 0/36

**Ans of a) = 0**

**Ans of b)**

Intrested outcome is sum of both dies value is < 4 = 6

Probability = 6/36 = 1/6 = 0.1666 \*100

**Ans of b) = 16.66 %**

**Ans of c)**

Intrested outcome is sum is divisible by 2 & 3 = 24

Probability = 24/36 = 2/3 = 0.6666 \* 100

**Ans of c) = 66.666 %**

Q5) A bag contains 2 red, 3 green and 2 blue balls. Two balls are drawn at random. What is the probability that none of the balls drawn is blue?

**=>** The total possible outcome is = 8

Intrsted outcome is = 4

Probability = 4/8 = ½ = 0.5 \*100

**Ans = 50%**

Q6) Calculate the Expected number of candies for a randomly selected child

Below are the probabilities of count of candies for children (ignoring the nature of the child-Generalized view)

|  |  |  |
| --- | --- | --- |
| CHILD | Candies count | Probability |
| A | 1 | 0.015 |
| B | 4 | 0.20 |
| C | 3 | 0.65 |
| D | 5 | 0.005 |
| E | 6 | 0.01 |
| F | 2 | 0.120 |

Child A – probability of having 1 candy = 0.015.

Child B – probability of having 4 candies = 0.20

**Expected Value e(x)** = E{x\*p(x)}  **~ E= Sum**

**e(x) =** (1\*0.015)+(4\*0.20)+(3\*0.65)+(5\*0.005)+(6\*0.01)+(2\*0.120)

e(x) **=** (0.015)+(0.8)+(1.95)+(0.025)+(0.06)+(0.24)

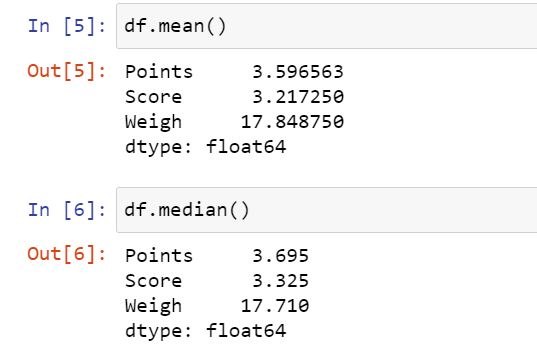
**Expected Value e(x) = 3.09**

Q7) Calculate Mean, Median, Mode, Variance, Standard Deviation, Range & comment about the values / draw inferences, for the given dataset

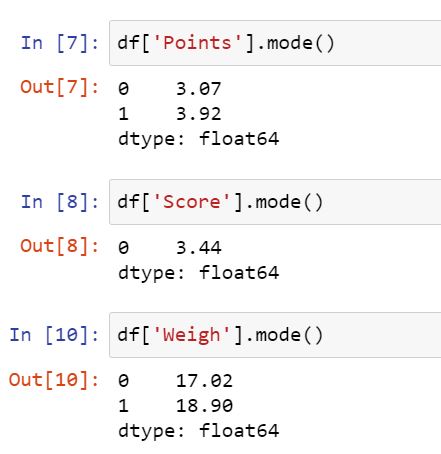
* For Points,Score,Weigh>

Find Mean, Median, Mode, Variance, Standard Deviation, and Range and also Comment about the values/ Draw some inferences.

The **Mean & Median** is find by python and ans is attached bellow

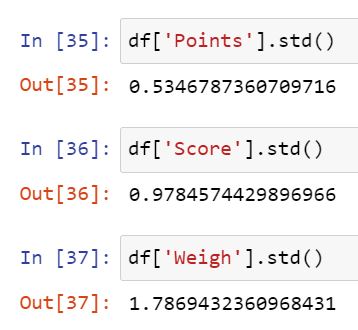
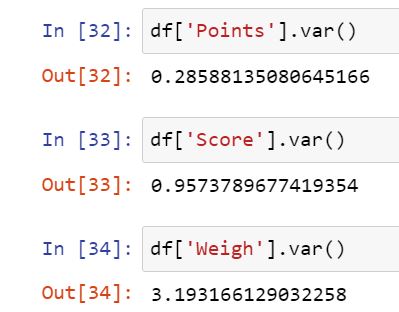


The **Mode** is find by python code and ans is attached bellow

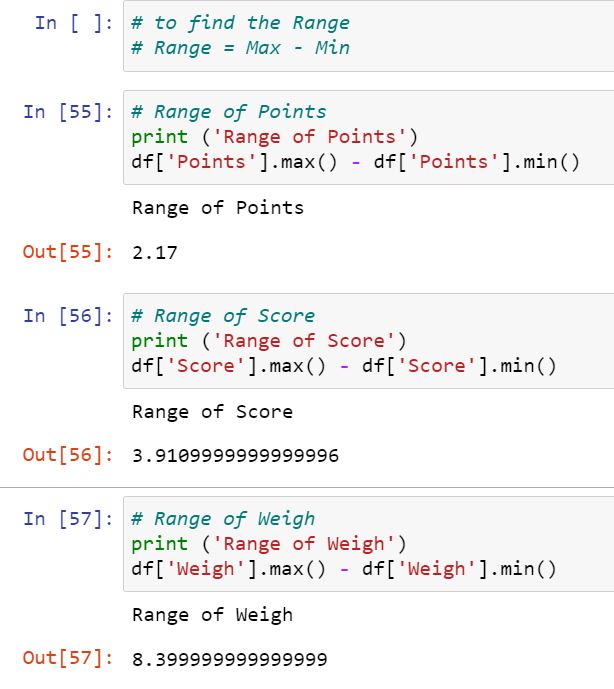


The **Variance and Standard deviation** is find by python code attached bellow

**“ Variance”** **“Standerd deviation”**



The **Range** is find by python code attached bellow

**Use Q7.csv file**

Q8) Calculate Expected Value for the problem below

1. The weights (X) of patients at a clinic (in pounds), are

108, 110, 123, 134, 135, 145, 167, 187, 199

Assume one of the patients is chosen at random. What is the Expected Value of the Weight of that patient?

**=> Expected Value e(x)** = E{x\*p(x)}

Probability p(x) = no of chosen patient/total patient

p(x) = 1/9 = 0.1111= 11%

Expected Value **e(x)** = E{x\*p(x)}

= (108\*0.11)+(110\*0.11)+…….+(187\*0.11)+(199\*0.11)

= (11.88)+(12.1)+(13.53)+(14.74)+(14.85)+(15.95)

+(18.37)+(20.57)+(21.89)

**Expected Value e(x)** **= 143.88**

**Q9) Calculate Skewness, Kurtosis & draw inferences on the following data**

**Cars speed and distance**

**Use Q9\_a.csv**

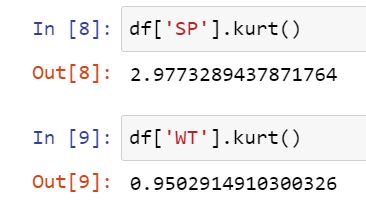
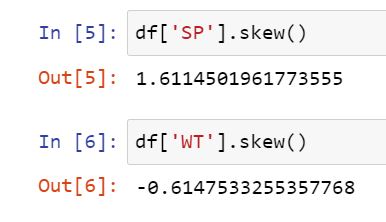
**‘Skewness’ ‘Kurtosis’**

** **

**SP and Weight(WT)**

**Use Q9\_b.csv**

**‘Skewness’ ‘Kurtosis’**

****

**Q10) Draw inferences about the following boxplot & histogram**



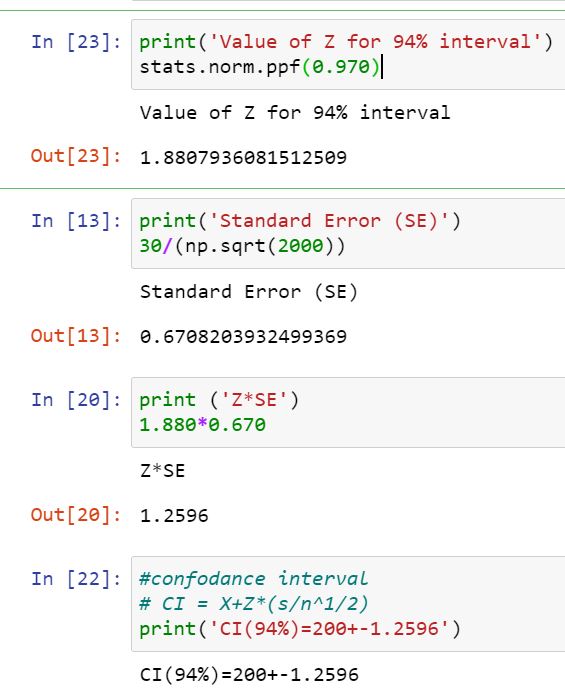
* In this histogram we say about tha skewness. The skewness is **Nagative** and the graph has outlier , in between 300 to 400 data points are we assume that’s are outlier.
* Now we say about kurtosis. This is have one sharp peak in between 50 to 100 so this nature is **positive kurtosis.** After 300 data are outlier because there is some distance in between peak point.

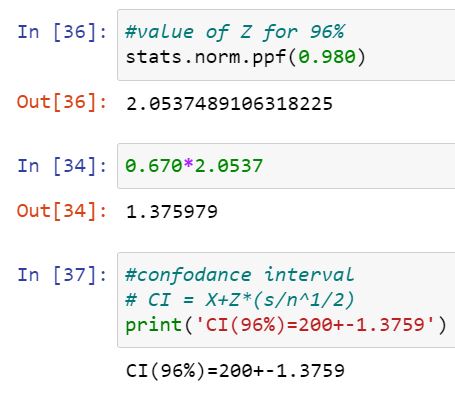
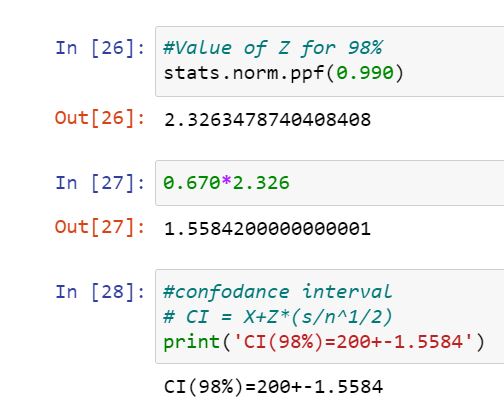


* The boxplot nature is shows the skewness is positive beacause the median is near to the lower qutile. In this box plot there are many outliers. The outlier is present at upperside of box plot.

**Q11)** Suppose we want to estimate the average weight of an adult male in Mexico. We draw a random sample of 2,000 men from a population of 3,000,000 men and weigh them. We find that the average person in our sample weighs 200 pounds, and the standard deviation of the sample is 30 pounds. Calculate 94%,98%,96% confidence interval?

* **Value of Confidence interval of 94%,98%,96% are below**



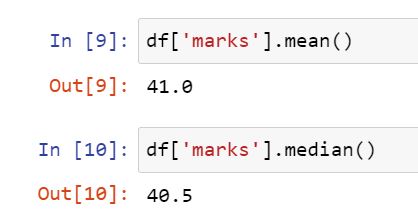


**Q12)** Below are the scores obtained by a student in tests

**34,36,36,38,38,39,39,40,40,41,41,41,41,42,42,45,49,56**

1. Find mean, median, variance, standard deviation.

**“Mean,Median” “Variance, Standard deviation”**



1. What can we say about the student marks?

* All students marks is good and average all students are getting nearby marks so probabily they are copied from each other. The mean and median are don’t have more diffrance so there is no ‘outlier’.

Q13) What is the nature of skewness when mean, median of data are equal?

* If mean=median then distribution is symmentric. And all symmentric data has skewness is near zero

Q14) What is the nature of skewness when mean > median ?

* If mean > median then skewness is **‘Positive skewness’**

Q15) What is the nature of skewness when median > mean?

* If mean < median then skewness is **‘Nagative skewness’**

Q16) What does positive kurtosis value indicates for a data ?

* In positive kurtosis the graph has a sharp peak, and the tail point distribution is thick and center point distribution is thin.

Q17) What does negative kurtosis value indicates for a data?

* In negative kurtosis the graph has a wide range, kurtosis is not have a sharp peak, the tail point distribution is thin and center point distribution is thick.

Q18) Answer the below questions using the below boxplot visualization.



What can we say about the distribution of the data?

* In this data there is no outlier and the Q1 is 10 and Q3 is 18.

What is nature of skewness of the data?

* In this data skewness is **‘Negative’**

What will be the IQR of the data (approximately)?

* IQR = Q3 - Q1   
   = 18 – 10

**IQR = 8**

Q19) Comment on the below Boxplot visualizations?



Draw an Inference from the distribution of data for Boxplot 1 with respect Boxplot 2.

* B1 is has a narrow range and B2 has a wide range. Both boxplot are following normal distribution.
* both boxplots(B1&B2) are have skewness is near zero
* B1 range is near by 247 to 287 and B2 range is near by 190 to 340
* In B1 Q1 is near by 280 and Q3 is near by 260
* In B2 Q1 is near by 225 and Q3 is near by 315
* IQR of B1 is approximate 20 and IQR of B2 is approximate 90.

Q 20) Calculate probability from the given dataset for the below cases

Data \_set: Cars.csv

Calculate the probability of MPG of Cars for the below cases.

MPG <- Cars$MPG

* 1. P(MPG>38)
  2. P(MPG<40)

c. P (20<MPG<50)

**P(MPG>38)**

![Graphical user interface, text, application

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RD4RXhpZgAATU0AKgAAAAgABAE7AAIAAAAPAAAISodpAAQAAAABAAAIWpydAAEAAAAeAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFBSQVRJSyBUUklWRURJAAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADNDkAAJKSAAIAAAADNDkAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**P(MPG<40)**

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**P (20<MPG<50)**

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Q 21) Check whether the data follows normal distribution

1. Check whether the MPG of Cars follows Normal Distribution

Dataset: Cars.csv

![Graphical user interface, table

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RD4RXhpZgAATU0AKgAAAAgABAE7AAIAAAAPAAAISodpAAQAAAABAAAIWpydAAEAAAAeAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFBSQVRJSyBUUklWRURJAAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADNDkAAJKSAAIAAAADNDkAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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When mean=median=mode then the term is follow the normal distribution. In this term ‘MPG’ mean is 34.4220 and median is 35.152 and mode is 29.62. so the **MPG is not follow the ‘Normal Distribution’**

1. Check Whether the Adipose Tissue (AT) and Waist Circumference(Waist) from wc-at data set follows Normal Distribution

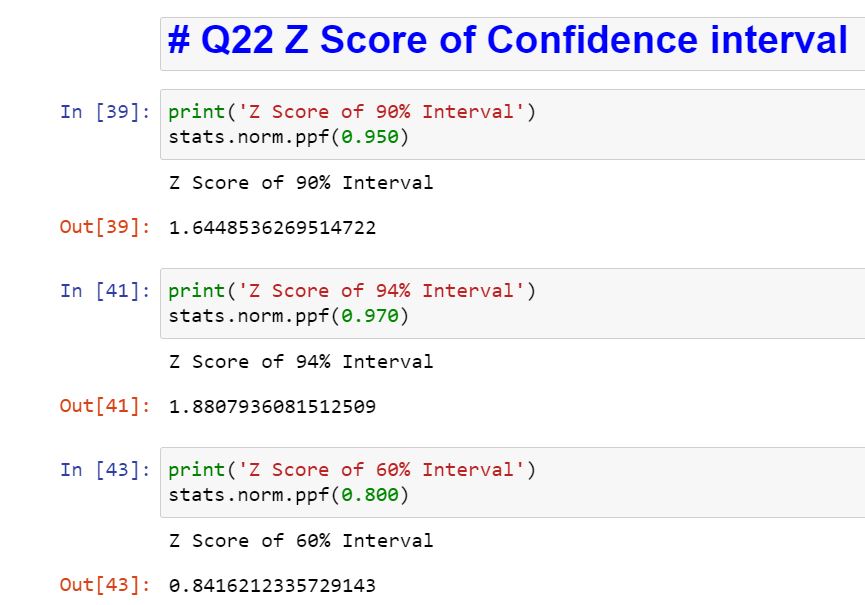
Dataset: wc-at.csv

![Graphical user interface, text, email

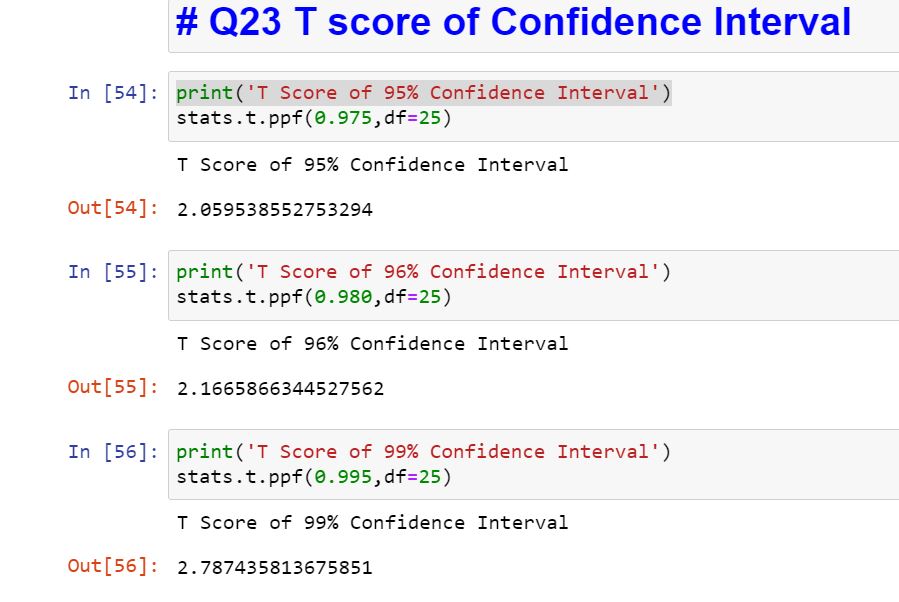
Description automatically 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GmAMjqXlIHDHb90E4HXmgDt6K86k1XxTq2m6x4k0fV47W106eeO10xrRGS5WAlX8xz84LFWwVIAGODUWuePReaja2dlrp0O3bT4r6WWC0+13MhlyUSOPa3ACksdp7dOtAHpVFYXg7ULnU/DUN1d6lZ6puZhHe2alVmQH5Syn7r9mUcAj8Kxp7nxF4k8RazbaDrQ0e20d0t1As0lNzOYxId5f8AgAZRhcHrzQB21FY3hLW38Q+FbHU540inmQiaNDlVkUlXA9twNbNABRSO2xGbBbAzgDk1xPhfxH4j1bx1qFrrdgml2AsIrizs2YNMAZHUvKQOGO37oJwOvNAHb0VwOty+L7XTNX8Q3GtxaLDYGWS205reKWKWJOhlflsvjPysuMjgmrGs6nrV1aWt9Jq8PhLRlsUubm/lELN5z4xF+9yFA7kjJyACKAO2orn/AARq9/rnhO2vtVRfPdpFWVIyizorkJKFPKh1AbHvWTPc+IvEniLWbbQdaGj22juluoFmkpuZzGJDvL/wAMowuD15oA7aisbwlrb+IfCtjqc8aRTzIRNGhyqyKSrge24GtmgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArzvxLpl/P8dvB2oQWVzJZW9ldrNcpExjiLAYDMBgE9s16JRQAUUUUAFc1Ba3A+KN5dmCUWzaTDGsxQ7CwlkJXd0zgg4966WigDzIT6r4f0PW/C0Whale3d3cXR0+4ig3W8iTszAvKPlj2lyCGweOM0+30mXwF4uh1VtLvdSs59Gt9OeawtzPJBJCT1RcttYN1AOCozXpVFAHEeGpLvw9oV5qV9o1+Dq2sGaOwtohJLbJK6qGdQcKB99vTJ61Eb688HeJtfaTRdU1K31aZLu0ksLbzh5nlKjRtj7nKA7mwOetd5RQBgeCNIuND8G2FjfqqXQVpJ0VshXdi7KD3wWx+Fb9FFABXNQWtwPijeXZglFs2kwxrMUOwsJZCV3dM4IOPeulooA8jv8AxO+t+KZ28T+HPFLaTp1yRZafb6HcPHcMp4nlYLhxnlV6DgnJ6dhq3iK7sr6Jr/w/eX2hXdqrxm2sXnnhmzyksQyQCCMELwQcmusooA4bwp9q8K+GZp7nRb5Ib7VS1rplpEJJLOKVwF3KDhVHLtg4UE+lMN9eeDvE2vtJouqalb6tMl3aSWFt5w8zylRo2x9zlAdzYHPWu8ooAwPBGkXGh+DbCxv1VLoK0k6K2QruxdlB74LY/Ct+iigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACkdwgyaWo5/uD60AHnr6Gjz19DUFFAE/nr6Gjz19DUFFAE/nr6Gjz19DUFFAE/nr6Gjz19DUFFAE/nr6Gjz19DUFFAE/nr6Gjz19DUFFAE/nr6Gjz19DUFFAE/nr6Gjz19DUFFAE/nr6Gjz19DUFFAE/nr6GnI4fOM8etVqlg/i/CgCaiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKjn+4PrUlRz/AHB9aAK0m/yn8kKZNp2hjgE9s+1eFeJ7TxX4Kg0zW9S8bajd+K9Q1NI00e3ut9jNGz4KJCUHATGWwOfc5r3OZ3jt5HijMsiqSsYIBc44GTxzXhPh7S/iNbeO7nxV4o+Hp1nVJX2Wsr63bRx6fCf4Y4/m5wT82cn2ySQD3lclRuGDjkUtICSoyMHuPSloAa5IRiq7mA4GcZNcP4XufE0nxD1GPxPcwqsmmxTQafakmO1BkcYLH77nAy2B6Diu6rBh027X4hXWptFizk02KBZNw5cSOxGM56Ec4xQByYh1TX9E1rxPFrmpWV3a3FyLC3in228aQMygPGPlfcUJJbJ54xUPiPxHDe32gS6zqmqafpN/pn2pYtHeQTPMdp+YRAy7Ap6gbc/e7Vdk0vxRpWnav4c0jSY7m11Ced7bUmu1VLZZyWbzEPzkqWbAUEHjkVZOi6r4U1+HUNE0k63atpsOnvDHPHFND5ROGXzCFKndyMg5A4NAGn8Pb+81Lwbb3V9dG83ySeROzKzvCHIjL7eN+3Ge+evOa5PxRcNqXjrVYpX8WSWum28CCHw/cyQhWbczu2GUMcFeBluOldJolnrmgaNc3P8AZUV1fanqn2mWxhulRbWORlDEORhiqjcQB8xyBT7688X6Vrl99k0sa7p91tazK3EUBs224ZH3YLISN24bm5Ix0oA2PDc1lP4bsZNLvJ760aEeVcXErSSOP9pm5LdjnmtSsTwhocvh3wva6fcyJLcKXkmaPO3zHYuwX2BYge1bdABSN90/SlpGGVIHpQB5f8MfEWrWywab4ovZLyPVmmn0u8mYljtdg9uzEnJUDcvqM+laPhPxBqcXg2a4W0vdbvZNavbaJDITtUXMgXfI2diKoxntwAKn07wZcXfwyttF1INY6lbu01vMjBmtphIzI4IJHcZHcEiuf0zwz4ys/h3YWt7aytdjVrm61Ox0+/FtJcxySSMBHKrDaMsrY3KccEigDo5vFWp3GneIdM1XSzo+qWWmtdRtb3fnI6MrAMkgVSCGU8EDHFUPAOvaonh46D4mu2n1aLTxd2t4xIN5Ay5D5JzvUna3Poe9UdN8HarDq+v3cGgLptvqGiNawRtfCeZ5ctxK7MfmOexYAD71bes+Er+/8B6WunlbXxFpNqhtHYgjzBGFeJiDgowyp5x0PagDS+HF3cX3wy8O3V7PLc3E2nwvJNM5d3YqMkk8k+9dXB/F+Fcz4C0y80X4e6Fpmpw+ReWljFFNHuDbHCgEZBIP4Gumg/i/CgCaiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKjn+4PrUlNdN64zjmgCtRUvkf7X6UeR/tfpQBFRUvkf7X6UeR/tfpQBFRUvkf7X6UeR/tfpQBFRUvkf7X6UeR/tfpQBFRUvkf7X6UeR/tfpQBFRUvkf7X6UeR/tfpQBFRUvkf7X6UeR/tfpQBFRUvkf7X6UeR/tfpQBFRUvkf7X6UeR/tfpQBFUsH8X4UeR/tfpT449mec5oAfRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAH/9k=)

When mean=median=mode then the term is follow the normal distribution. In this term **‘Waist’** **mean** is **91.90** and **median** is **90.80** and **mode** is **94.5,106,108.5** and **‘AT’** **mean** is **101.89** and **median** is **96.54** and **mode** is **121,123** . so the **Waist and AT both are not following the ‘Normal Distribution’.**

22) Calculate the Z scores of 90% confidence interval,94% confidence interval, 60% confidence interval



Q 23) Calculate the t scores of 95% confidence interval, 96% confidence interval, 99% confidence interval for sample size of 25



Q 24**)** A Government company claims that an average light bulb lasts 270 days. A researcher randomly selects 18 bulbs for testing. The sampled bulbs last an average of 260 days, with a standard deviation of 90 days. If the CEO's claim were true, what is the probability that 18 randomly selected bulbs would have an average life of no more than 260 days

Hint:

rcode 🡪 pt(tscore,df)

df 🡪 degrees of freedom

* From this data first we will find the Z score

So data is

Meu = 270 , Xbar=260 , STD(sigma)=90

Z = Xbar-Meu / sigma

= 260-270/90

= -10/90

Z = -0.11

From z table we find probability

**P = 0.45620**