Statistical Worksheet
Q.1 Answer ; A) True
Q.2 Answer ; C) Centroid Limit Theorem
Q.3 Answer ; B) Modeling bounded count data
Q.4 Answer; A) The exponent of a normally distributed random variables follows what is called the log- normal distribution
Q.5 Answer ; C) Poisson
Q.6 Answer ; B) False
Q.7 Answer ; B) Hypothesis
Q.8 Answer ; A) 0
Q.9 Answer ;
10. Answer :
Normal Distribution: A distribution is said to be normal distribution if the curve of the data is symmetrical or the mean, median and mode of the distribution falls at the same point.
11. Answer :
To handel the missing values , first I check wheather the dataset has the missing value or not by the help of isnull().sum().
Then I write a program as –
from scipy.stats import zscore
7 = numpy abs/zscore(yyz dataset)

Z

Statistical Worksheet
Threshold = 3
Print(numpy.where(Z>3))
12.Answer;
13. Answer; Throught Mean imputation of missing data is a straightforward method , It is not acceptable as the best practice .
14.Answer; In statistics, Linear Regression is a powerful tool for understanding and predicting the relationships between variables. Essentially it fits a straight line to the data on the $x-y$ plane in a way that it minimize the errors between predicted and actual values.
If n input and n output are there, then the Linear regression formula is
Y = a + b1X1 + b2X2 + + bnXn + (error)
15.Answer:
Mainly there are two branches are there of statistics . Those are
Descriptive statistics
2. Inferential statistics
1. Descriptive statistics: It is devided in to two types
a) Central Tendency : Mean , Median, mode
b) Dispersion of data: Range, Quartile deviation, Variance, standard deviation, skewness.
2. Inferential statistics: It use Hypothesis testing, regression analysis etc to draw conclusions
about a population on a sample of data

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