a Demonstrate methods to generate random numbers for the probability distributions.

b. Illustrate the concepts of grouping and aggregating data for categorical variables with suitable examples.

a.Describe the steps to implement geometry and mathematics behind the calculation of pi.

b. Write a python program for the following:

a) Creating a dummy data frame containing two columns.

b) Passing indices to data frame.

Demonstrate Data Wrangling Techniques using Python.

Write a short note on the following:

i) Data frame ii) Delimiters iii) Imputation

Describe various methods of merging/joining tables/data frames.

Write a python code snippets for the following:

i) Generating a dummy data frame.

ii) Splitting a data set and building a logistic regression model over a training set

Demonstrate methods to generate random numbers for the probability distributions.

Illustrate the concepts of grouping and aggregating data for categorical variables with suitable examples.

Describe the steps to implement geometry and mathematics behind the calculation of pi.

Write a python program for the following:

Creating a dummy data frame containing two columns.

Passing indices to data frame.