**2.How to calculate the measure of central tendency for a data set using python?**

**Objective:**

* To calculate the mean,median,mode of the sample data in python.

**Process:**

* Mean/Average:

It add together all of the numbers in a data set and then divide the sum by the total count of numbers.

To calculate the mean value using df.mean() python inbuilt function.

* Median:

It arranging the data from smallest to largest.

After arranging it takes the middle data in a data set.

Find the median by averaging the two middle data.

To calculate the median value using df.median() python inbuilt function.

* Mode:

Its returns the frequently used data one or more time in a data set.

To calculate the mode value using df.mode() python inbuilt function.

**Input:**

Data set(CSV file)

**Output:**

The value of mean,median,mode of corresponding data in a dataset.

**Source Code:**

#import pandas library

import pandas as pd

#load the data from CSV file

data=pd.read\_csv('/home/soft27/soft27/Sathish/Pythonfiles/

Employee.csv')

#creating the DataFrame

df=pd.DataFrame(data)

print("Actual data from the CSV file:")

print(df)

#Calculate the mean

print("Mean is:")

print(df.mean())

#Calculate the median

print("Median is:")

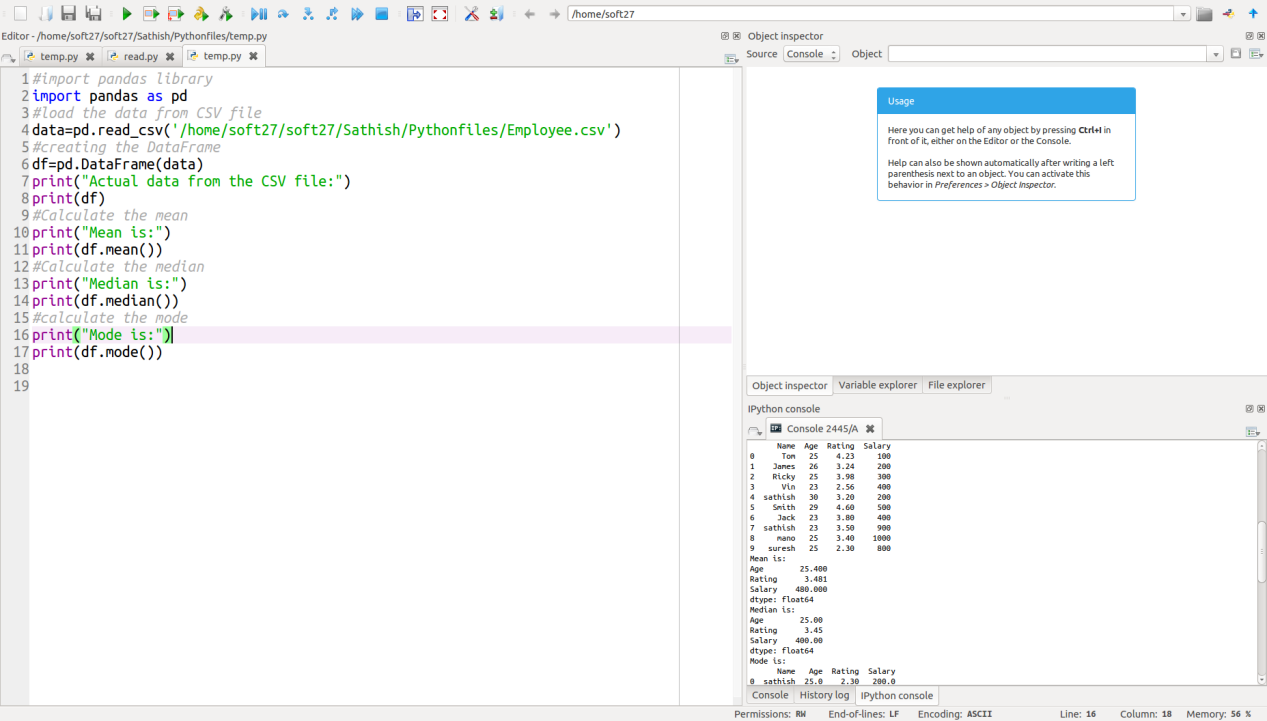
print(df.median())

#calculate the mode

print("Mode is:")

print(df.mode())

**Screen Shots:**

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