Find mean, median, mode of your own dataset.

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In [ ]: # Name: Atul Rajput
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        import pandas as pd
        import numpy
        from scipy import stats
        # Create a DataFrame with 'value' and 'weight' columns
        dataframe = pd.DataFrame({'value': [45, 67, 89, 34, 56, 78, 90, 67, 45, 23], 'weight': [1, 3, 2, 4, 5, 2, 1, 3, 2, 4]})
        # Calculate the mean of the 'value' column
        x = numpy.mean(dataframe.value)
        # Calculate the median of the 'value' column
        y = numpy.median(dataframe.value)
        # Calculate the mode of the 'value' column
        z = stats.mode(dataframe.value)
        # Print the mean value
        print("Mean: ",x)
        # Print the median value
        print("Median: ",y)
        # Print the mode value (along with its count)
        print("Mode: ",z)
        # Function to compute the weighted average
        def weighted average(dataframe, value, weight):
            value = dataframe[value] # Extract the value column
            weight = dataframe[weight] # Extract the weight column
            # Compute the weighted average
            return (value * weight).sum() / weight.sum()
        # Calculate and print the weighted average
        print(weighted average(dataframe, 'value', 'weight'))
```

Mean: 59.4
Median: 61.5
Mode: ModeResult(mode=np.int64(45), count=np.int64(2))
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