**12.How to visualize the sample data using bar chart in python?**

**Objective:**

* To visualize the sample data in bar chart using python.

**Process:**

* Import matplot library and then import subpackage pyplot.
* Load the data set.
* Take two variables in the sample data.
* Using plt.bar(arguments) to plot bar chart in python.

**Input:**

* Data set(sample)

**Output:**

* Bar chart representation for given sample data.

**Source code:**

#import library

import matplotlib.pyplot as plt

import pandas as pd

import numpy as np

#10 sample data

data={'name':['sathish','raj','raja','krishna','yusuf',

'praveen','sangee','ezhil','dinesh','ganesh'], 'salary':[100,200,300,400,500,400,300,200,100,50],

'age':[25,26,25,23,30,29,23,23,25,25], 'rating':[4,3.24,2.5,2.25,2,2.25,2.5,2.75,3.2,4.2], 'bonus':[2500,1200,900,3000,1800,1400,850,250,750, 1000]}

#creating data frame

df=pd.DataFrame(data)

#numpy method that generates an array of sequential numbers

index = np.arange(len(df['name']))

# this is for plotting purpose

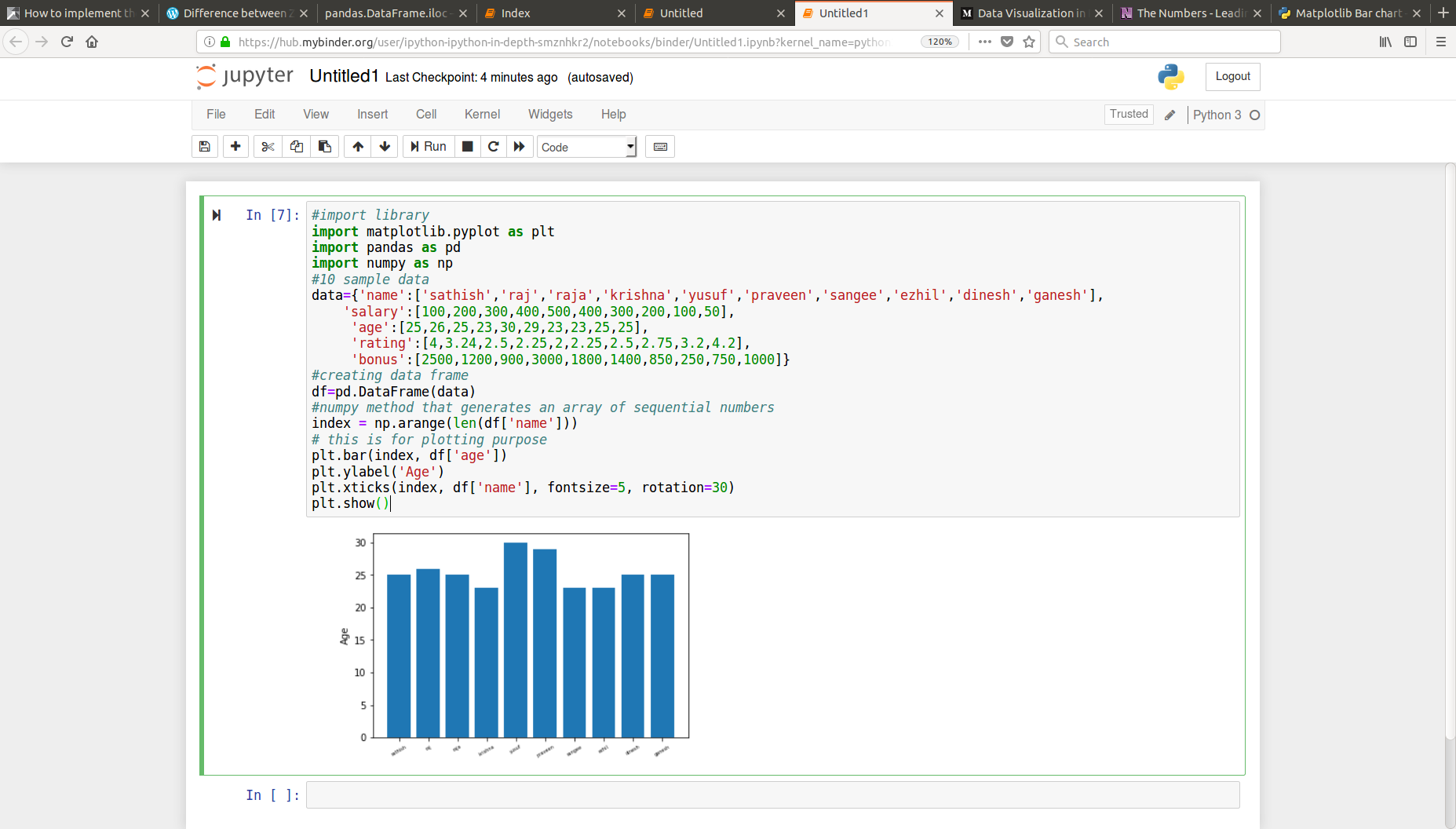
plt.bar(index, df['age'])

plt.ylabel('Age')

plt.xticks(index, df['name'], fontsize=5, rotation=30)

plt.show()

**Screen shot:**

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