Uplaoding the saved CSV file downloaded from MyClass

```
from google.colab import files
uploaded = files.upload()

Choose Files No file chosen Upload widget is only available when the cell has been executed in the current browser session.

Please rerun this cell to enable.
Saving TableData csy to TableData (1) csy
```

Importing the neccessary libraries and creating a Dataframe

```
import pandas as pd
import io

df = pd.read_csv(io.BytesIO(uploaded['TableData.csv']))
df.head()
```

	Category	May2021	Mar.2022	Apr.2022(p)	May2022(p)
0	Total nonfarm	447	398	436	390
1	Total private	381	385	405	333
2	Goods-producing	22	85	69	59
3	Mining and logging	6	5	8	5
4	Construction	-12	22	0	36

Importing Matplotlib for Data visualization

Converting the Rows and Columns to Dictionary of Lists in order to plot the the graph for each Category in the respective Months

'Utilities':[-0.9,-0.5,0.5],'Information':[15,18,15,16],'Financial activities':[0,11,35,8],'Professional 'Leisure and hospitality':[199,104,83,84],'Other services':[16,15,13,16],'Government':[66,13,31,57],'Total no 'Total private production and nonsupervisory employees':[81.4,81.5,81.5],'Average weekly hours':[34.9,34 'Over-the-month percent change':[0.3,0,0.3,0.3],'Index of aggregate weekly payrolls (2007=100)(4)':[56.6,169. 'Manufacturing (74 industries)':[55.4,72.3,71.6,66.2]}

df = pd.DataFrame(data)

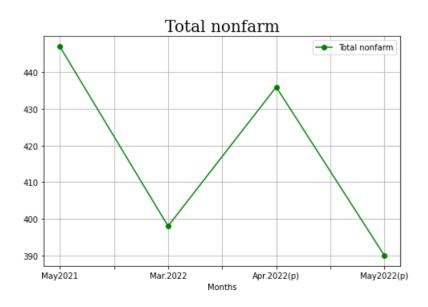
df.head()

	Category	Total nonfarm	Total private	Goods- producing	Mining and logging	Construction	Manufacturing	Durable goods(1)	Motor vehicles and parts	Nondurable goods
0	May2021	447	381	22	6	-12	28	23	19.6	5
1	Mar.2022	398	385	85	5	22	58	41	18.4	17
2	Apr.2022(p)	436	405	69	8	0	61	34	7.5	27
3	May2022(p)	390	333	59	5	36	18	11	-3.5	7
4 rows × 35 columns										
4										•

```
plt.rcParams["figure.figsize"] = [7,5]
plt.rcParams["figure.autolayout"] = True

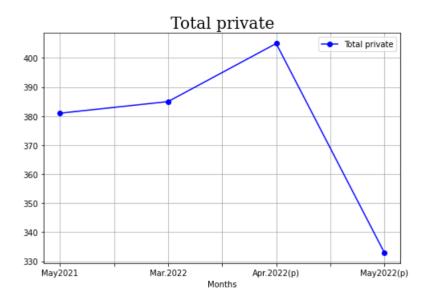
df.plot(kind='line',x='Category',y='Total nonfarm',marker='o',color='g')
#df.plot(kind='line',x='Category',y='Total private')
#df.set_index('Category').plot(kind='bar')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Total nonfarm",fontdict = font1)
plt.grid()

plt.show()
```

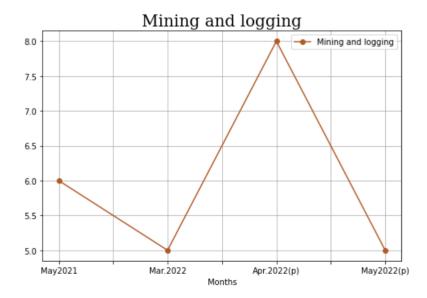


df.plot(kind='line',x='Category',y='Total private',marker='o',color='b')

```
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Total private",fontdict = font1)
plt.grid()
plt.show()
```



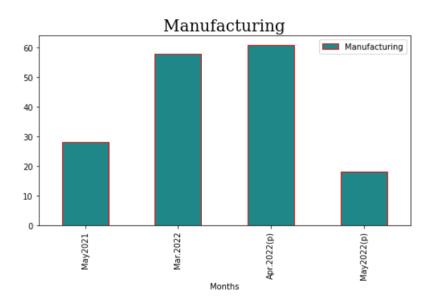
```
df.plot(kind='line',x='Category',y='Mining and logging',marker='o',color='#B25B25')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Mining and logging",fontdict = font1)
plt.grid()
plt.show()
```



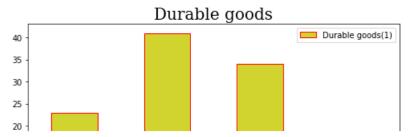
```
df.plot(kind='line',x='Category',y='Construction',marker='o',color='#4325B2')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Construction",fontdict = font1)
plt.grid()
plt.show()
```



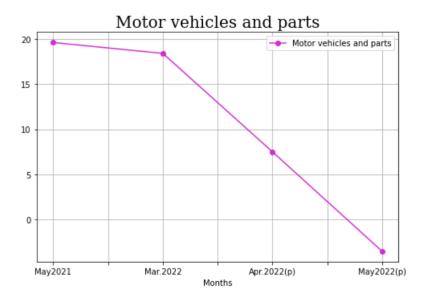
```
df.plot(kind='bar',x='Category',y='Manufacturing',color='#1F8787',edgecolor='red')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Manufacturing",fontdict = font1)
```



```
df.plot(kind='bar',x='Category',y='Durable goods(1)',color='#D1D42E',edgecolor='red')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Durable goods",fontdict = font1)
plt.show()
```

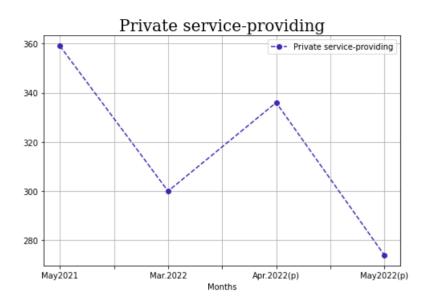


```
df.plot(kind='line',x='Category',y='Motor vehicles and parts',marker='o',color='#D12ED4')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Motor vehicles and parts",fontdict = font1)
plt.grid()
```

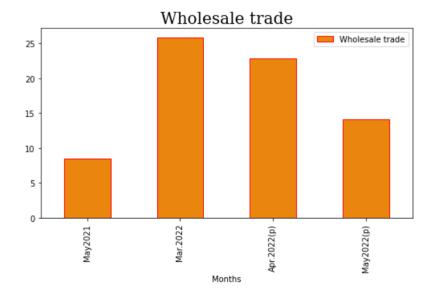


```
df.plot(kind='line',x='Category',y='Nondurable goods',marker='o',color='#6DA95A')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Nondurable goods",fontdict = font1)
plt.grid()
plt.show()
```

```
df.plot(kind='line',x='Category',y='Private service-providing',marker='o',color='#4325B2',linestyle='dashed')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Private service-providing",fontdict = font1)
plt.grid()
plt.show()
```



```
df.plot(kind='bar',x='Category',y='Wholesale trade',color='#EA860E',edgecolor='red')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Wholesale trade",fontdict = font1)
plt.show()
```



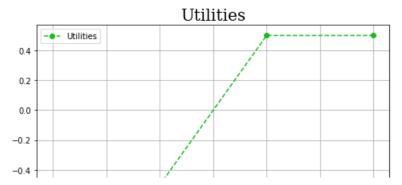
```
df.plot(kind='line',x='Category',y='Retail trade',marker='o',color='#EA0E54',linestyle=':')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Retail trade",fontdict = font1)
plt.grid()
plt.show()
```



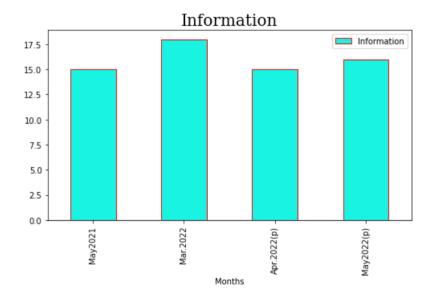
```
df.plot(kind='line',x='Category',y='Transportation and warehousing',marker='o',color='#4325B2',linestyle='-.')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Transportation and warehousing",fontdict = font1)
plt.grid()
plt.show()
```



```
df.plot(kind='line',x='Category',y='Utilities',marker='o',color='#14BF16',linestyle='--')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Utilities",fontdict = font1)
plt.grid()
plt.show()
```



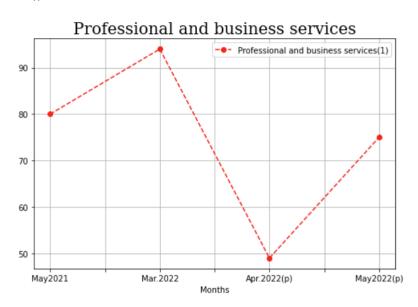
```
df.plot(kind='bar',x='Category',y='Information',color='#18F3E2',edgecolor='red')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Information",fontdict = font1)
```



```
df.plot(kind='bar',x='Category',y='Financial activities',color='#F3B018',edgecolor='red')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Financial activities",fontdict = font1)
plt.show()
```

Financial activities

```
df.plot(kind='line',x='Category',y='Professional and business services(1)',marker='o',color='#F32518',linestyle='--')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Professional and business services",fontdict = font1)
plt.grid()
plt.show()
```



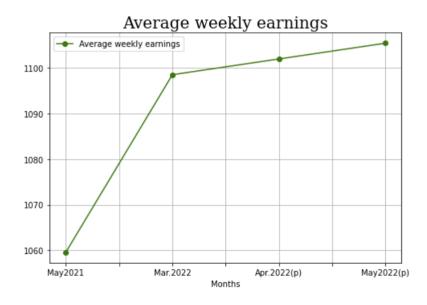
```
df.plot(kind='line',x='Category',y='Temporary help services',marker='o',color='#14BF16',linestyle='-')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Temporary help services",fontdict = font1)
plt.grid()
plt.show()
```



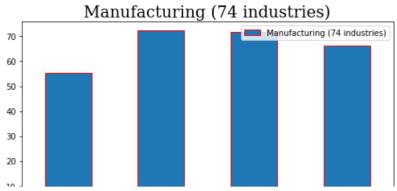
```
df.plot(kind='line',x='Category',y='Average hourly earnings',marker='o',color='#4018F3',linestyle='--')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Average hourly earnings",fontdict = font1)
plt.grid()
```



```
df.plot(kind='line',x='Category',y='Average weekly earnings',marker='o',color='#3C780E',linestyle='-')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Average weekly earnings",fontdict = font1)
plt.grid()
plt.show()
```



```
df.plot(kind='bar',x='Category',y='Manufacturing (74 industries)',edgecolor='red')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Manufacturing (74 industries)",fontdict = font1)
plt.show()
```



df.plot(kind='bar',x='Category',y='Total private (256 industries)',color='indigo',edgecolor='red')
plt.xlabel("Months")
font1 = {'family':'serif','color':'black','size':20}
plt.title("Total private (256 industries)",fontdict = font1)
plt.show()

