```
import pandas as pd
import numpy as np


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

Choose Files ER Employmen...r_2021.xlsx

- **ER Employment by Industry_November_2021.xlsx**(application/vnd.openxmlformats-officedocument.spreadsheetml.sheet) - 62765 bytes, last modified: n/a - 100% done

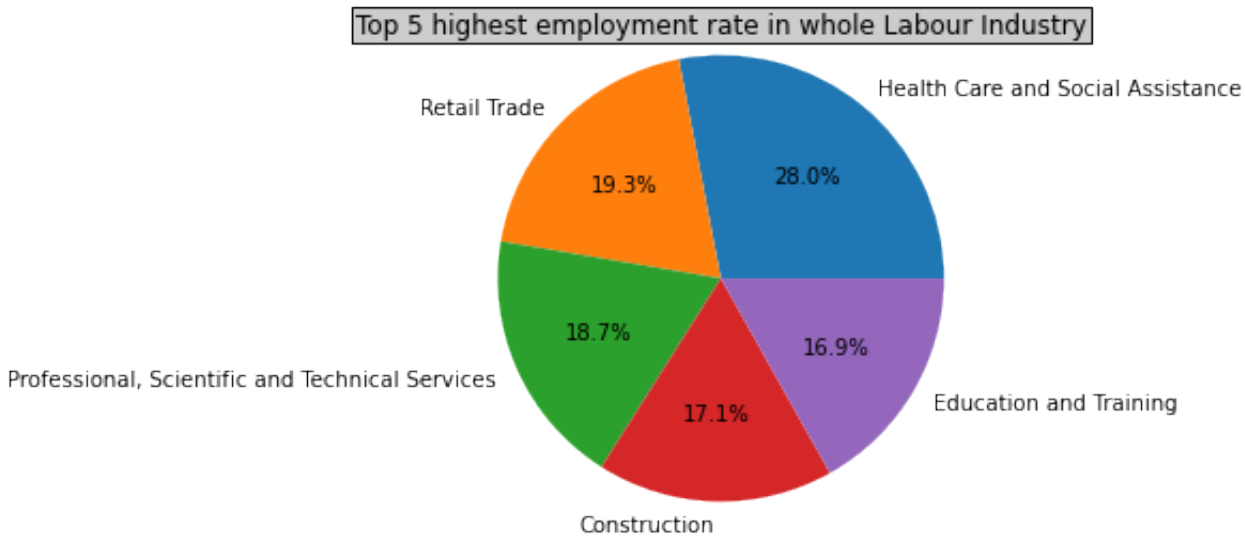
Saving ER Employment by Industry_November_2021.xlsx to ER Employment by Ind

```
import io
Aus_Lab_Data = pd.read_excel(io.BytesIO(uploaded['ER Employment by Industry_Nove
# Dataset is now stored in a Pandas Dataframe


#Aus_Lab_Data


Aus_Lab_Data.drop('Employment Region',axis=1,inplace=True)
#Aus_Lab_Data.head()


Aus_Lab_Data.drop(Aus_Lab_Data.index[855:874],axis=0,inplace=True)


#Aus_Lab_Data


e=Aus_Lab_Data.groupby('Industry')['Employment by Industry - Total'].sum().sort_


# top 5 largest employing industries
top_5=e.head(5)
top_5
```

```
Industry
Health Care and Social Assistance                1807300
Retail Trade                                     1246500
Professional, Scientific and Technical Services  1204000
Construction                                     1104400
Education and Training                           1087600
Name: Employment by Industry - Total, dtype: int64
```

```
df1=pd.DataFrame({'INDUSTRY':top_5.index, 'TOTAL':top_5.values})
df1
y=df1['TOTAL']
x=df1['INDUSTRY']


import matplotlib.pyplot as plt
plt.pie(y,labels=x,radius=1.2,autopct='%1.1f%%')
plt.title("Top 5 highest employment rate in whole Labour Industry" , bbox={'face
```

```
Text(0.5, 1.0, 'Top 5 highest employment rate in whole Labour Industry')
```

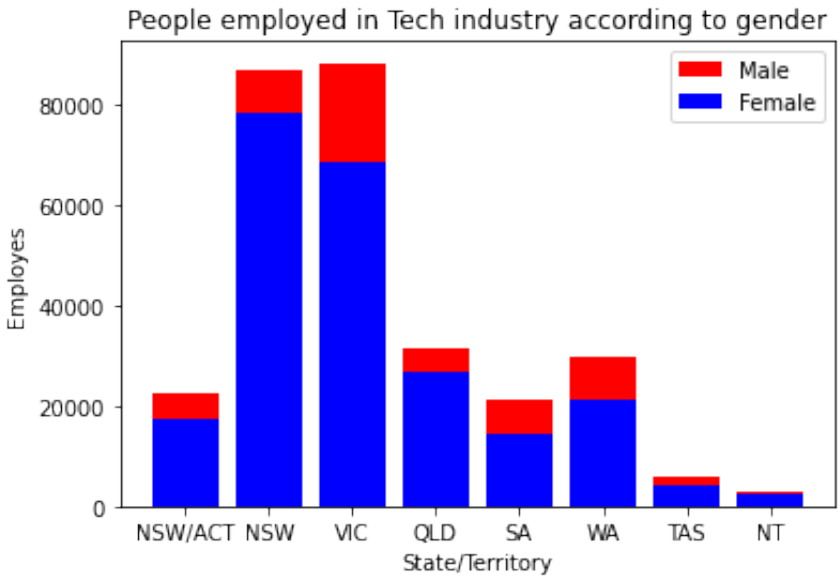



```
top_5_industries=['Health Care and Social Assistance','Retail Trade','Profession

ll=Aus_Lab_Data.sort_values(by= 'Industry',ascending = True).groupby('Industry')

#ll

Aus_Lab_Data['Industry'] = Aus_Lab_Data['Industry'].replace(['Professional, Scie

#Aus_Lab_Data.head(20)

Tech_Services = Aus_Lab_Data.loc[Aus_Lab_Data['Industry'] == 'Prof_Tech_Emp_Serv
```

```
Tech_Services.head()
```

	State/Territory	Industry	Employment by Industry - Total	Employed Full-Time	Employed Part-Time	Em
12	NSW/ACT	Prof_Tech_Emp_Services	39800	32200	7600	
31	NSW	Prof_Tech_Emp_Services	5600	4200	1500	
50	NSW	Prof_Tech_Emp_Services	0	0	0	
69	NSW	Prof_Tech_Emp_Services	23700	17100	6600	
88	NSW	Prof_Tech_Emp_Services	16500	12500	4000	

```
x=Tech_Services['State/Territory']
male_employed=Tech_Services['Employed - Male']
female_employed=Tech_Services['Employed - Female']
plt.bar(x, male_employed, color='r')
plt.bar(x, female_employed, color='b')
plt.xlabel("State/Territory")
plt.ylabel("Employes")
plt.legend(["Male", "Female"])
plt.title("People employed in Tech industry according to gender")
plt.show()
```



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