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```
# 1. Loading the file
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
Forbes_df=pd.read_csv("/content/2022_forbes_billionaires.csv")
print(Forbes_df)
```

```
      Unnamed: 0  rank                    name networth  age  \
0              0     1                Elon Musk    $219 B   50
1              1     2              Jeff Bezos    $171 B   58
2              2     3  Bernard Arnault & family    $158 B   73
3              3     4               Bill Gates    $129 B   66
4              4     5           Warren Buffett    $118 B   91
...          ...   ...                     ...       ...  ...
2595        2595  2578   Jorge Gallardo Ballart      $1 B   80
2596        2596  2578             Nari Genomal      $1 B   82
2597        2597  2578           Ramesh Genomal      $1 B   71
2598        2598  2578           Sunder Genomal      $1 B   68
2599        2599  2578    Horst-Otto Gerberding      $1 B   69

           country                source              industry
0    United States          Tesla, SpaceX            Automotive
1    United States                Amazon            Technology
2           France                  LVMH      Fashion & Retail
3    United States             Microsoft            Technology
4    United States     Berkshire Hathaway  Finance & Investments
...            ...                   ...                   ...
2595         Spain        pharmaceuticals            Healthcare
2596   Philippines               apparel      Fashion & Retail
2597   Philippines               apparel      Fashion & Retail
2598   Philippines              garments      Fashion & Retail
```

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```
# 1. Loading the file
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```
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0              0     1               Elon Musk    $219 B   50
1              1     2              Jeff Bezos    $171 B   58
2              2     3  Bernard Arnault & family    $158 B   73
3              3     4               Bill Gates    $129 B   66
4              4     5           Warren Buffett    $118 B   91
...          ...   ...                      ...       ...  ...
2595        2595  2578   Jorge Gallardo Ballart      $1 B   80
2596        2596  2578            Nari Genomal      $1 B   82
2597        2597  2578          Ramesh Genomal      $1 B   71
2598        2598  2578          Sunder Genomal      $1 B   68
2599        2599  2578    Horst-Otto Gerberding      $1 B   69

           country               source              industry
0    United States          Tesla, SpaceX            Automotive
1    United States                Amazon            Technology
2           France                  LVMH       Fashion & Retail
3    United States             Microsoft            Technology
4    United States     Berkshire Hathaway  Finance & Investments
...            ...                   ...                   ...
2595         Spain        pharmaceuticals            Healthcare
2596   Philippines                apparel       Fashion & Retail
2597   Philippines                apparel       Fashion & Retail
2598   Philippines               garments       Fashion & Retail
2599       Germany  flavors and fragrances        Food & Beverage

[2600 rows x 8 columns]
```

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```
2599        Germany  flavors and fragrances        Food & Beverage

[2600 rows x 8 columns]
```

```
[ ] # 2. Printing the first 5 rows of data:
Forbes_df.head()
```

	Unnamed: 0	rank	name	networth	age	country	source	industry
0	0	1	Elon Musk	$219 B	50	United States	Tesla, SpaceX	Automotive
1	1	2	Jeff Bezos	$171 B	58	United States	Amazon	Technology
2	2	3	Bernard Arnault & family	$158 B	73	France	LVMH	Fashion & Retail
3	3	4	Bill Gates	$129 B	66	United States	Microsoft	Technology
4	4	5	Warren Buffett	$118 B	91	United States	Berkshire Hathaway	Finance & Investments

```
# 3. Printing last 5 rows of data
Forbes_df.tail()
```

	Unnamed: 0	rank	name	networth	age	country	source	industry
2595	2595	2578	Jorge Gallardo Ballart	$1 B	80	Spain	pharmaceuticals	Healthcare
2596	2596	2578	Nari Genomal	$1 B	82	Philippines	apparel	Fashion & Retail
2597	2597	2578	Ramesh Genomal	$1 B	71	Philippines	apparel	Fashion & Retail
2598	2598	2578	Sunder Genomal	$1 B	68	Philippines	garments	Fashion & Retail
2599	2599	2578	Horst-Otto Gerberding	$1 B	69	Germany	flavors and fragrances	Food & Beverage

```
[ ] # 4. Checking for missing values
Forbes_df.isnull().sum()
```

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```
# 4. Checking for missing values
Forbes_df.isnull().sum()
```

	0
Unnamed: 0	0
rank	0
name	0
networth	0
age	0
country	0
source	0
industry	0

dtype: int64

+ Code + Text

```
[ ] # 4. Check for null values
Forbes_df.isna()
```

	Unnamed: 0	rank	name	networth	age	country	source	industry
0	False	False	False	False	False	False	False	False
1	False	False	False	False	False	False	False	False
2	False	False	False	False	False	False	False	False
3	False	False	False	False	False	False	False	False
4	False	False	False	False	False	False	False	False

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[ ]

source	0
industry	0

dtype: int64

```
# 4. Check for null values
Forbes_df.isna()
```

	Unnamed: 0	rank	name	networth	age	country	source	industry
0	False	False	False	False	False	False	False	False
1	False	False	False	False	False	False	False	False
2	False	False	False	False	False	False	False	False
3	False	False	False	False	False	False	False	False
4	False	False	False	False	False	False	False	False
...	...	...	...	...	...	...	...	...
2595	False	False	False	False	False	False	False	False
2596	False	False	False	False	False	False	False	False
2597	False	False	False	False	False	False	False	False
2598	False	False	False	False	False	False	False	False
2599	False	False	False	False	False	False	False	False

2600 rows × 8 columns

[ ]

```
# 4.checking for duplicated values
Forbes_df.isnull().any().any()
```

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```
[ ] # 4.checking for duplicated values
    Forbes_df.isnull().any().any()
```

```
False
```

```
# 4.checking for duplicated values
Forbes_df.duplicated()
```

	0
0	False
1	False
2	False
3	False
4	False
...	...
2595	False
2596	False
2597	False
2598	False
2599	False

2600 rows × 1 columns

dtype: bool

```
[ ] # 5. Getting some info about the data
```

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dtype: bool

```
[ ] # 5. Getting some info about the data
    Forbes_df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2600 entries, 0 to 2599
Data columns (total 8 columns):
 #   Column      Non-Null Count  Dtype
---  ------      --------------  -----
 0   Unnamed: 0  2600 non-null   int64
 1   rank        2600 non-null   int64
 2   name        2600 non-null   object
 3   networth    2600 non-null   object
 4   age         2600 non-null   int64
 5   country     2600 non-null   object
 6   source      2600 non-null   object
 7   industry    2600 non-null   object
dtypes: int64(3), object(5)
memory usage: 162.6+ KB
```

```
# 6. Get some description about the data
Forbes_df.describe()
```

	Unnamed: 0	rank	age
count	2600.000000	2600.000000	2600.000000
mean	1299.500000	1269.570769	64.271923
std	750.699674	728.146364	13.220607
min	0.000000	1.000000	19.000000
25%	649.750000	637.000000	55.000000
50%	1299.500000	1292.000000	64.000000

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```
 6   source      2600 non-null   object
 7   industry    2600 non-null   object
dtypes: int64(3), object(5)
memory usage: 162.6+ KB
```

```
# 6. Get some description about the data
Forbes_df.describe()
```

	Unnamed: 0	rank	age
count	2600.000000	2600.000000	2600.000000
mean	1299.500000	1269.570769	64.271923
std	750.699674	728.146364	13.220607
min	0.000000	1.000000	19.000000
25%	649.750000	637.000000	55.000000
50%	1299.500000	1292.000000	64.000000
75%	1949.250000	1929.000000	74.000000
max	2599.000000	2578.000000	100.000000

```
# 7. Get the shape of the data
shape=Forbes_df.shape
print(shape)
```

```
(2600, 8)
```

```
pd.DataFrame(Forbes_df['rank'].value_counts())
```

	count

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```
[ ] shape=Forbes_df.shape
    print(shape)
```

```
(2600, 8)
```

```
[ ] pd.DataFrame(Forbes_df['rank'].value_counts())
```

rank	count
1929	147
2190	134
2448	130
2324	124
2076	114
...	...
89	1
90	1
96	1
97	1
1	1

228 rows × 1 columns

```
[ ] pd.DataFrame(Forbes_df['age'].value_counts())
```

age	count

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```
pd.DataFrame(Forbes_df['age'].value_counts())
```

age	count
64	152
58	79
59	78
54	77
57	77
...	...
27	2
26	2
29	2
19	1
100	1

76 rows × 1 columns

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```
[ ] pd.DataFrame(Forbes_df['country'].value_counts())
```

country	count
United States	719
China	515

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[ ]

100	1

76 rows × 1 columns

[ ]
```
pd.DataFrame(Forbes_df['country'].value_counts())
```

country	count
United States	719
China	515
India	161
Germany	130
Russia	81
...	...
Venezuela	1
Portugal	1
Algeria	1
Eswatini (Swaziland)	1
Estonia	1

75 rows × 1 columns

[ ]
```
#VISUALIZATION
#1.Age distribution among the data using bar plot
age=Forbes_df['age'].value_counts(ascending=True)
plt.figure(figsize=(10,6))
```

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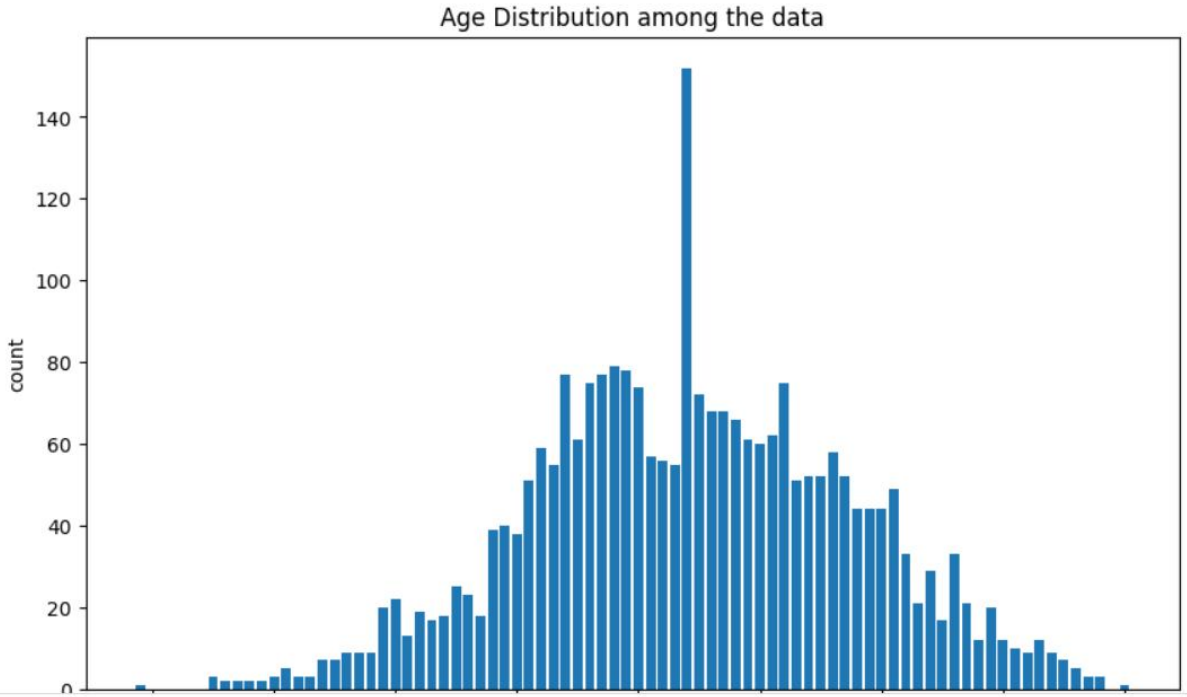
```
#1.Age distribution among the data using bar plot
age=Forbes_df['age'].value_counts(ascending=True)
plt.figure(figsize=(10,6))
plt.bar(age.index,age)
plt.xlabel("age")
plt.ylabel("count")
plt.title("Age Distribution among the data")
plt.show()
```



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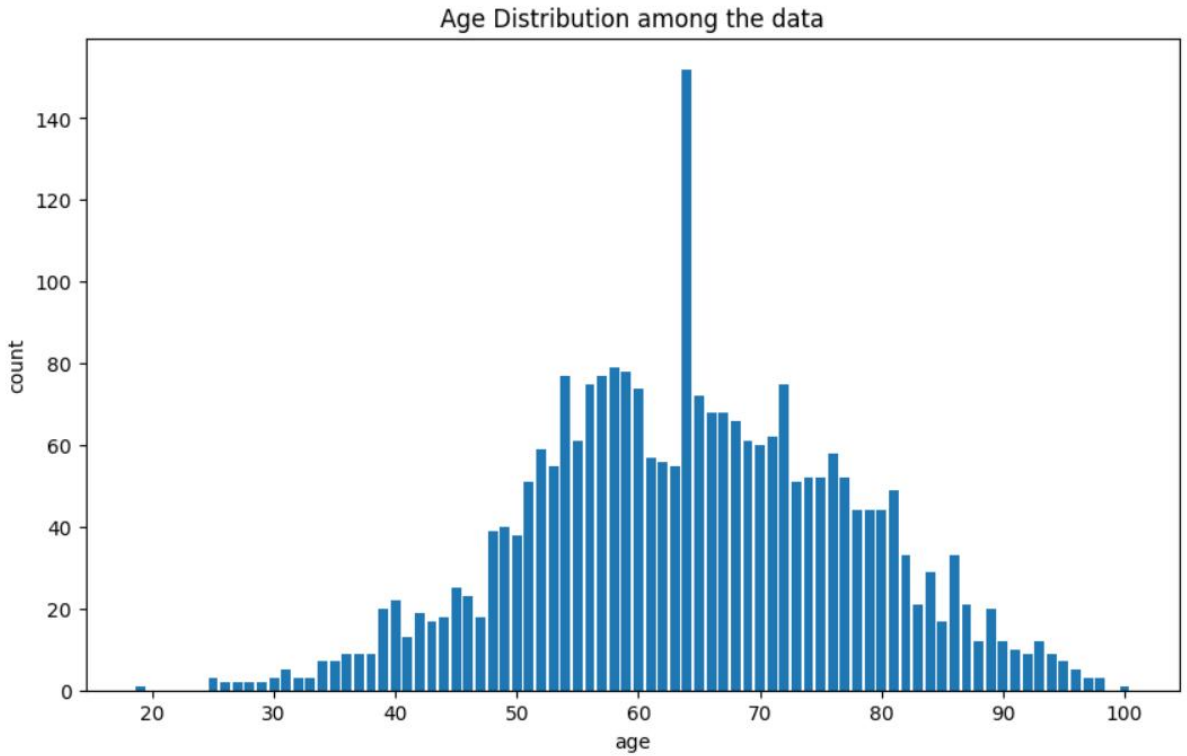
```
plt.show()
```




```
[ ]  # 2. Net Worth Vs Frequency using bar plot

     from matplotlib.pyplot import figure
```

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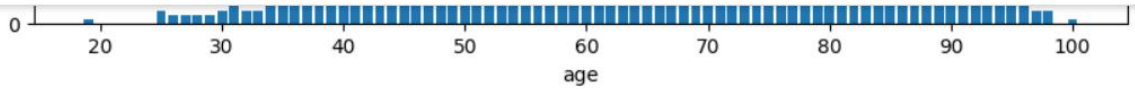
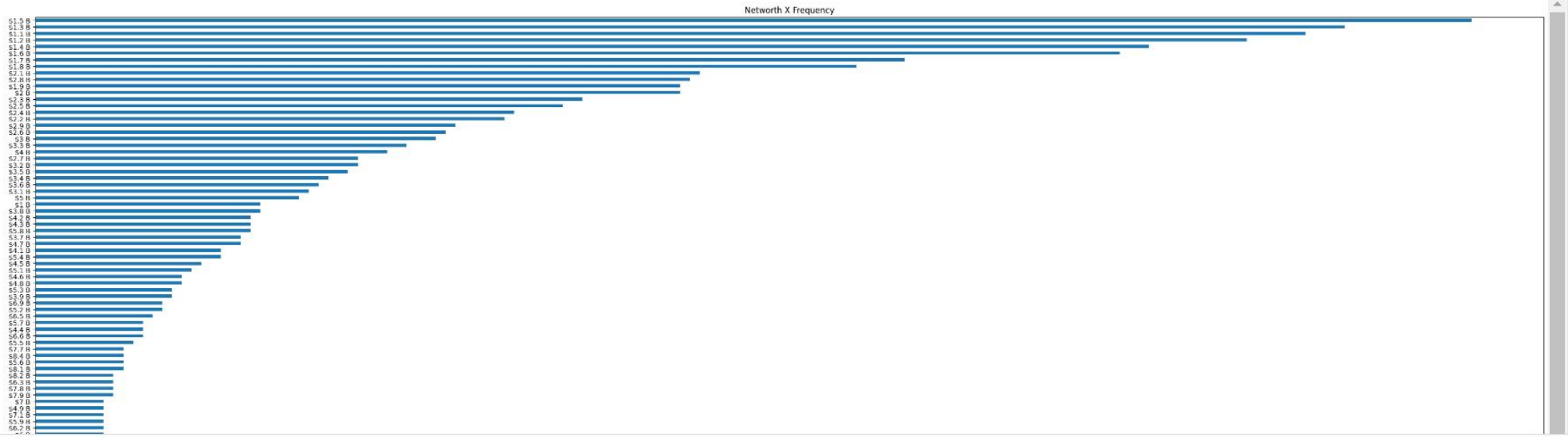



```
# 2. Net Worth Vs Frequency using bar plot

from matplotlib.pyplot import figure
figure(num=None, figsize=(40, 40))
Forbes_df["networth"].value_counts(ascending=True).plot.barh()
plt.title("Networth X Frequency")
plt.ylabel("Networth")
plt.xlabel("Frequency")
plt.show()
```



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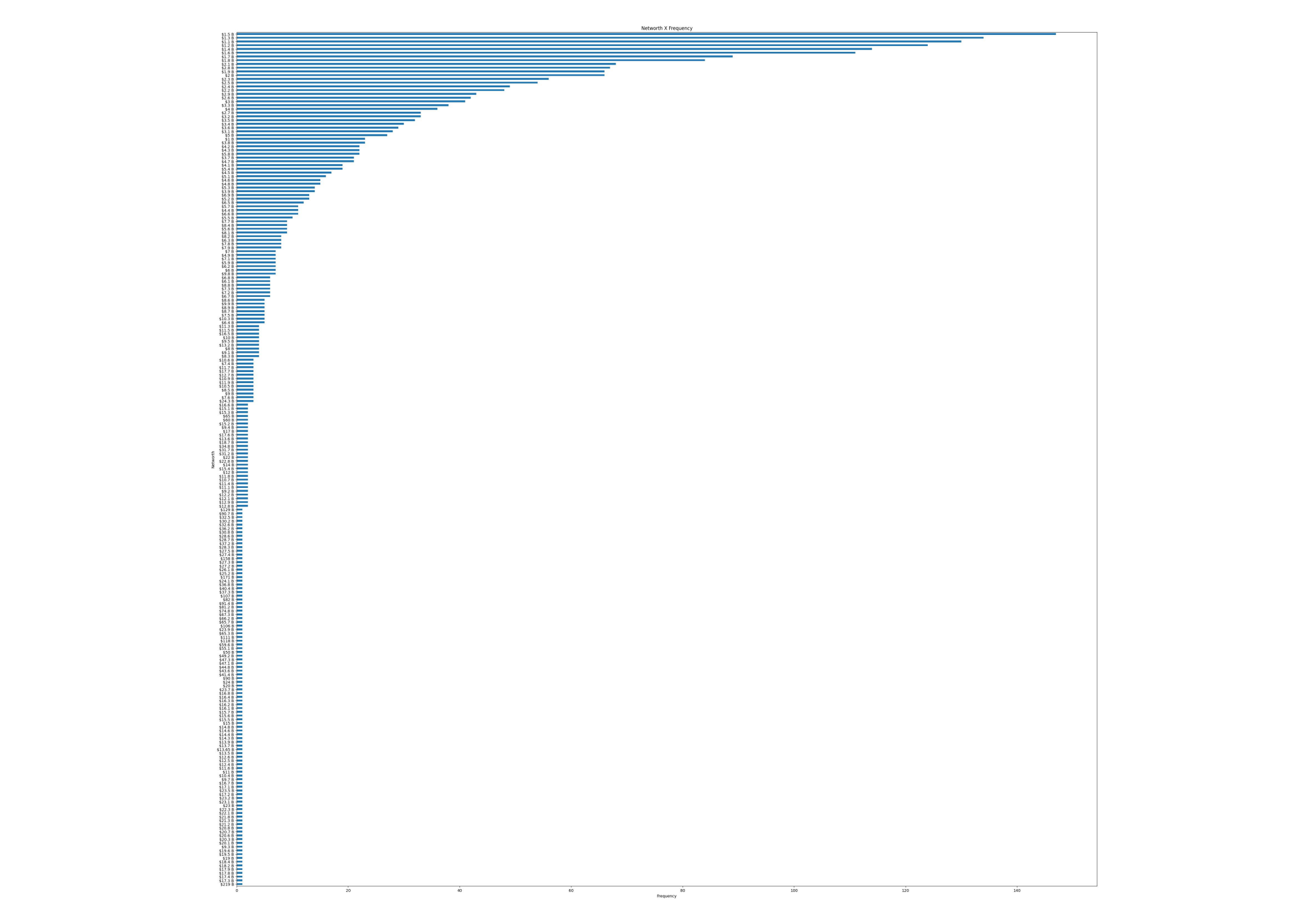
Networth X Frequency
Networth
$1.5 B
$1.3 B
$1.1 B
$1.0 B
$1.4 B
$1.6 B
$1.7 B
$1.8 B
$2.1 B
$2.8 B
$1.9 B
$2 B
$2.3 B
$2.5 B
$2.4 B
$2.2 B
$2.9 B
$2.6 B
$3 B
$3.5 B
$4 B
$2.7 B
$3.2 B
$3.5 B
$3.4 B
$3.6 B
$3.1 B
$5 B
$3 B
$4.0 B
$4.3 B
$5.8 B
$3.7 B
$4.7 B
$4.1 B
$5.4 B
$4.5 B
$5.1 B
$4.6 B
$4.8 B
$5.3 B
$5.0 B
$6.9 B
$5.2 B
$6.5 B
$5.7 B
$4.4 B
$6.6 B
$5.5 B
$7.7 B
$8.4 B
$5.6 B
$8.1 B
$8.2 B
$7.8 B
$7.8 B
$7.9 B
$7 B
$4.9 B
$7.1 B
$5.9 B
$6.2 B
$6 B
$9.8 B
$6.8 B
$6.1 B
$6.0 B
$7.0 B
$7.2 B
$6.7 B
$8.6 B
$9.9 B
$8.9 B
$8.7 B
$7.5 B
$10.3 B
$6.4 B
$11.3 B
$10.1 B
$16.5 B
$10 B
$9.5 B
$13.2 B
$8 B
$9.1 B
$8.3 B
$10.6 B
$7.4 B
$11.7 B
$17.7 B
$10.9 B
$11.9 B
$10.5 B
$8.5 B
$9 B
$7.6 B
$24.3 B
$16.6 B
$15.1 B
$15.3 B
$65 B
$60 B
$15.2 B
$17 B
$17.6 B
$13.6 B
$18.7 B
$34.8 B
$31.7 B
$31.2 B
$22 B
$22.8 B
$14 B
$12 B
$11.8 B
$10.7 B
$11.4 B
$11.1 B
$9.2 B
$12.2 B
$12.1 B
$12.9 B
$12.8 B
$129 B
$90.7 B
$30.3 B
$30.2 B
$32.6 B
$36.2 B
$30.8 B
$28.6 B
$28.7 B
$37.2 B
$28.3 B
$27.5 B
$27.4 B
$29.8 B
$27.2 B
$26.1 B
$25.2 B
$171 B
$24.1 B
$36.8 B
$40.4 B
$37.3 B
$107 B
$80 B
$81.4 B
$75 B
$74.8 B
$67.3 B
$66.2 B
$65.7 B
$100 B
$23.9 B
$65.3 B
$111 B
$118 B
$59.6 B
$55.1 B
$52 B
$49.2 B
$47.3 B
$47.1 B
$44.8 B
$43.6 B
$41.4 B
$90 B
$24 B
$20 B
$23.7 B
$16.8 B
$16.4 B
$16.3 B
$16.2 B
$16.1 B
$15.7 B
$15.6 B
$15.5 B
$15 B
$14.8 B
$14.6 B
$14.4 B
$14.3 B
$13.9 B
$13.7 B
$13.45 B
$13.5 B
$12.6 B
$12.5 B
$12.4 B
$11.6 B
$11 B
$10.4 B
$9.7 B
$16.7 B
$17.1 B
$17.2 B
$17.7 B
$23.2 B
$23.1 B
$23 B
$22.3 B
$22.1 B
$21.8 B
$21.3 B
$21.2 B
$20.8 B
$20.7 B
$20.6 B
$20.5 B
$20.1 B
$9.3 B
$19.6 B
$19.5 B
$19 B
$18.4 B
$18.2 B
$17.9 B
$17.8 B
$17.4 B
$17.3 B
$219 B
0
20
40
60
80
100
120
140
Frequency

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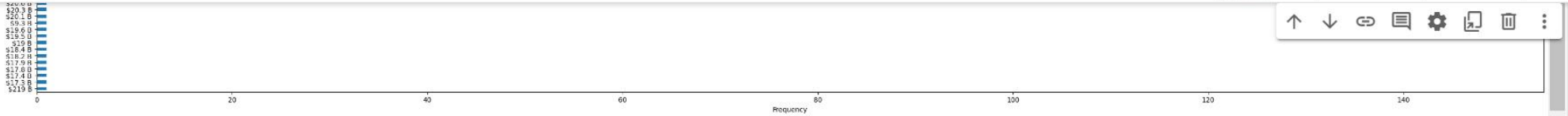
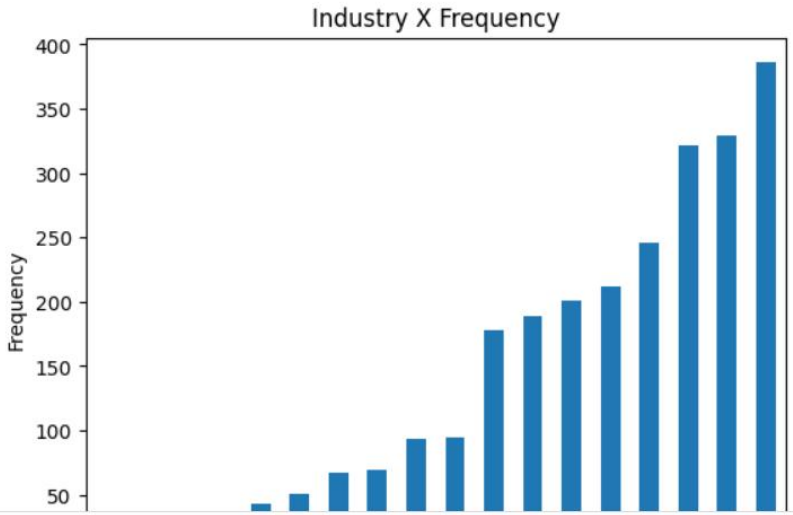



```
[ ]  # 3. Showing Industry Vs Frequency using bar plot
     from matplotlib.pyplot import figure
     figure(num=None)
     Forbes_df["industry"].value_counts(ascending=True).plot.bar()
     plt.title("Industry X Frequency")
     plt.xlabel("Industry")
     plt.ylabel("Frequency")
     plt.show()
```



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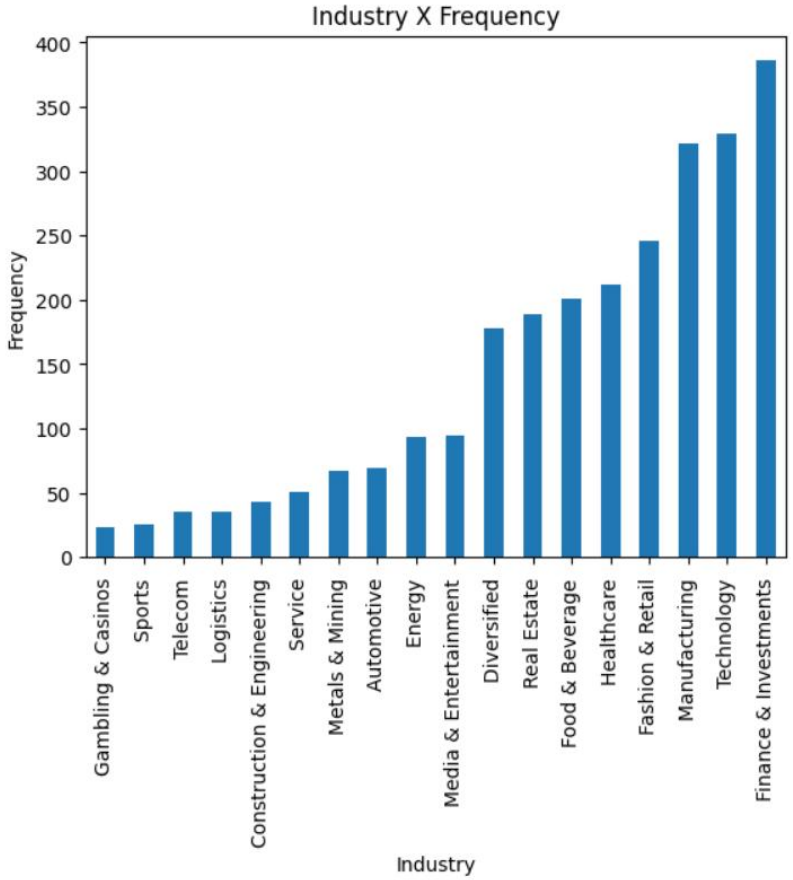
[ ]



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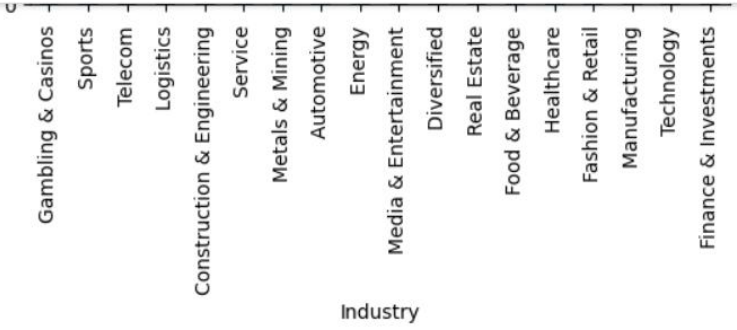

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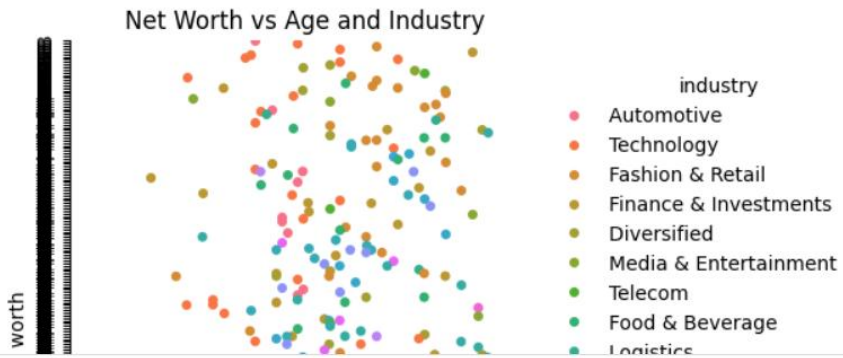
```
[ ] # 4.Showing how does Net worth Change with age and industry using cat plot
    sns.catplot(data=Forbes_df, x="age", y="networth",hue="industry")
    plt.title("Net Worth vs Age and Industry")
    plt.xlabel("Age")
    plt.ylabel("Net worth")
    plt.yticks(rotation=90)
    plt.show()
```



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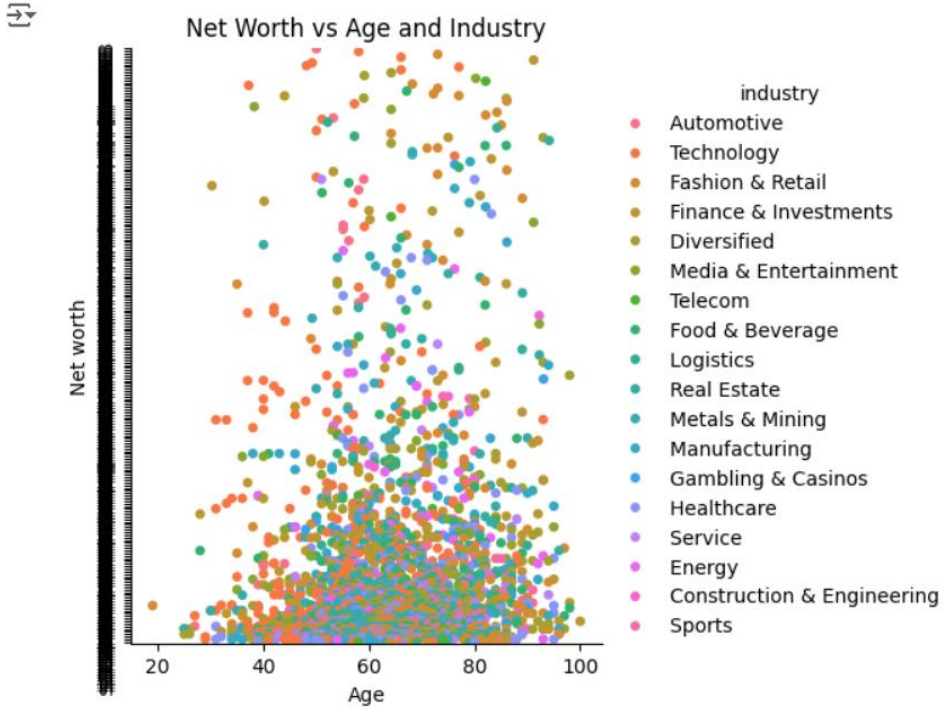
```
[ ] plt.title("Net Worth vs Age and Industry")
    plt.xlabel("Age")
    plt.ylabel("Net worth")
    plt.yticks(rotation=90)
    plt.show()
```




```
[ ] # 5. Showing the top 10 richest people vs net worth
```

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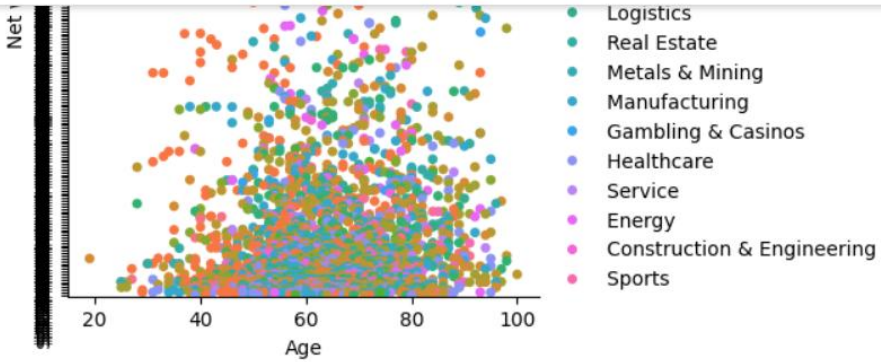
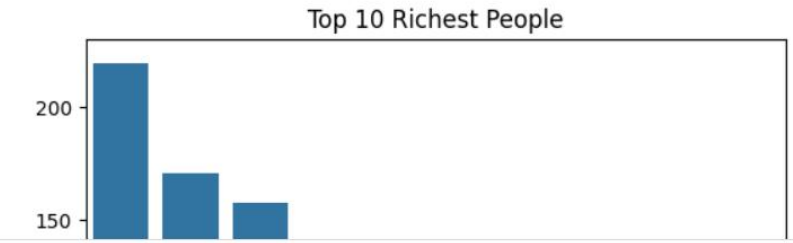



```
[ ] # 5. Showing the top 10 richest people vs net worth
    rich=Forbes_df.copy()
    rich['networth']=rich['networth'].str.replace('$','').str.replace('B','').astype(float)
    rich=rich.nlargest(10,'networth')
    sns.barplot( x ='name',y='networth',data=rich)
    plt.xticks(rotation=90)
    plt.title('Top 10 Richest People')
    plt.xlabel("Name")
    plt.ylabel("networth")
    plt.show()
```



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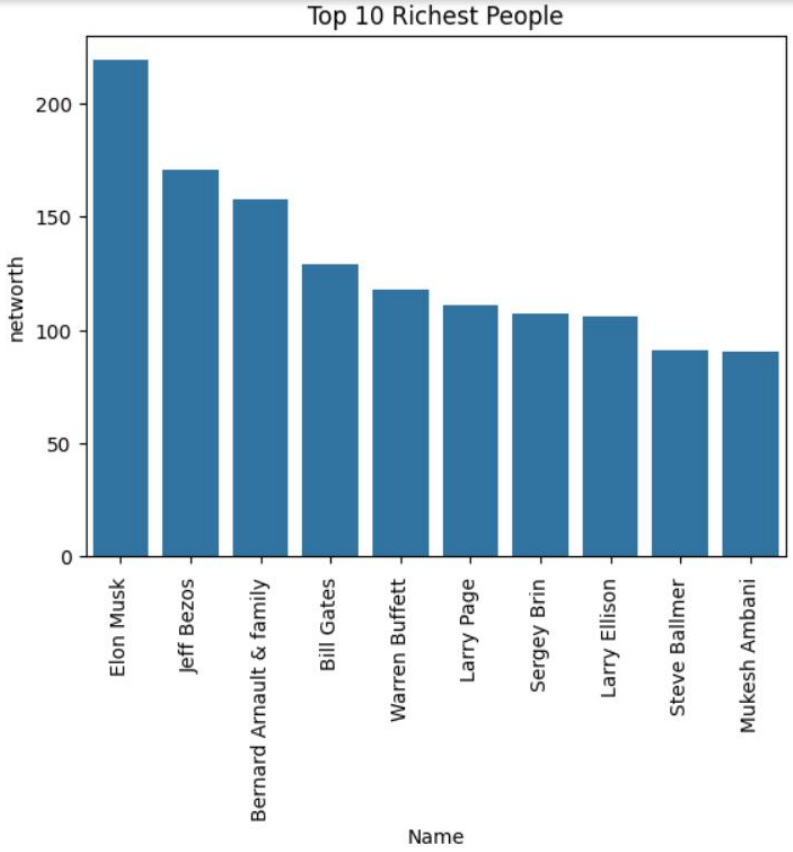


```
[ ] # 6.Showing the richest people from India
    richest=Forbes_df[Forbes_df['country']=='India'].copy()
```

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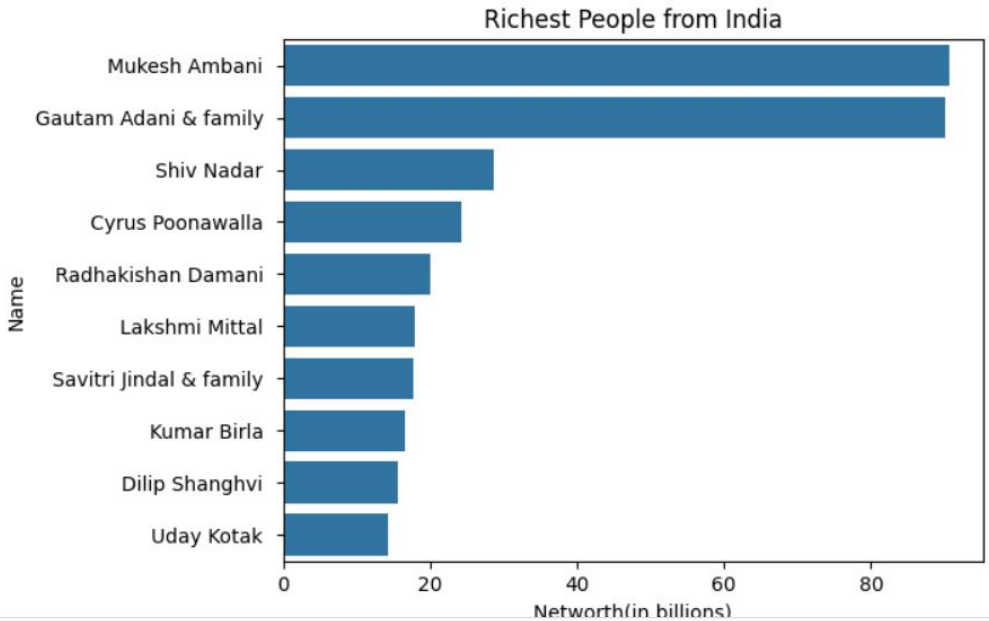
```
# 6.Showing the richest people from India
richest=Forbes_df[Forbes_df['country']=='India'].copy()
richest['networth']=richest['networth'].str.replace('\n','').str.replace('B','').str.replace('$','').astype(float)
richest=richest.nlargest(10,'networth')
sns.barplot(x='networth',y='name',data=richest)
plt.title("Richest People from India")
plt.xlabel("Networth(in billions)")
plt.ylabel("Name")
plt.show()
```



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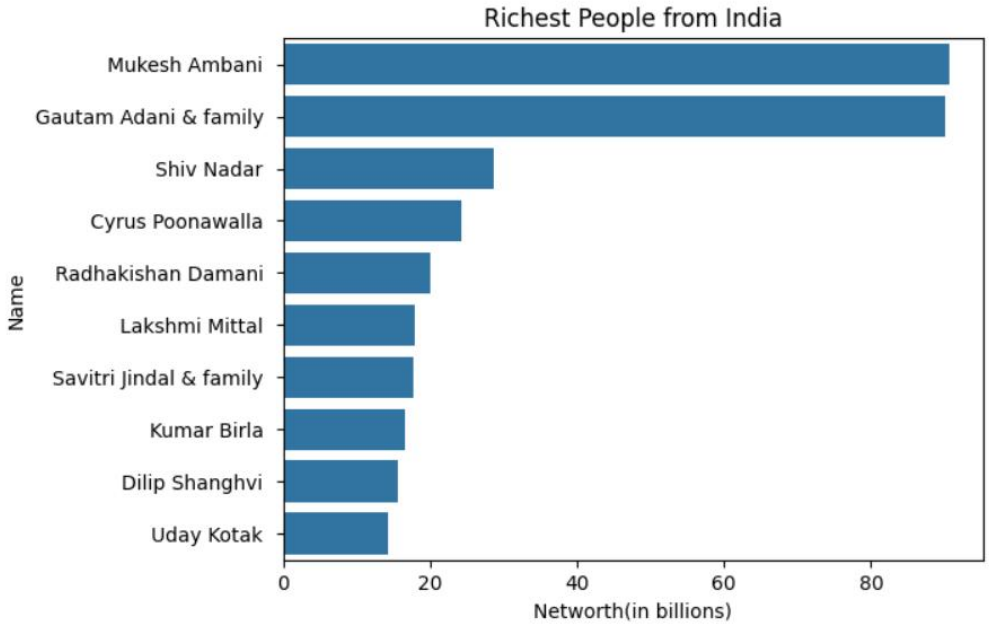
```
plt.show()
```




```
[ ] # 7.Showing the minimum age billionaire <=50 with name and industry.
    young=Forbes_df[Forbes_df['age']<=50]
    young=young[['name','age','industry']].sort_values(by='age')
    print(young)
```

```
                    name  age              industry
1311  Kevin David Lehmann   19      Fashion & Retail
2190   Alexandra Andresen   25           Diversified
1975     Pedro Franceschi   25  Finance & Investments
```

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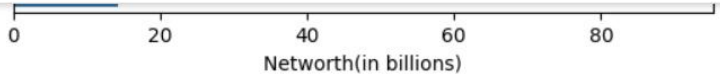


```
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young=Forbes_df[Forbes_df['age']<=50]
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```

```
                    name  age              industry
1311  Kevin David Lehmann   19      Fashion & Retail
2190   Alexandra Andresen   25           Diversified
1975     Pedro Franceschi   25  Finance & Investments
2062         Wang Zelong    25       Metals & Mining
2191   Katharina Andresen   26           Diversified
...                   ...  ...                   ...
2395        Park Kwan-ho    50  Media & Entertainment
1572       Evan Williams    50            Technology
575          Daniel Ziff    50  Finance & Investments
1485         David Mindus   50           Real Estate
0               Elon Musk   50            Automotive

[359 rows x 3 columns]
```

```
# 8.Showing in which industry billionaires are more
industry_cnts=Forbes_df['industry'].value_counts()
sns.barplot(x=industry_cnts.index,y=industry_cnts.values)
plt.title("Number of Billionaires by Industry")
plt.xlabel("Industry")
plt.ylabel("Number of Billionaires")
plt.xticks(rotation=90)
plt.show()
```

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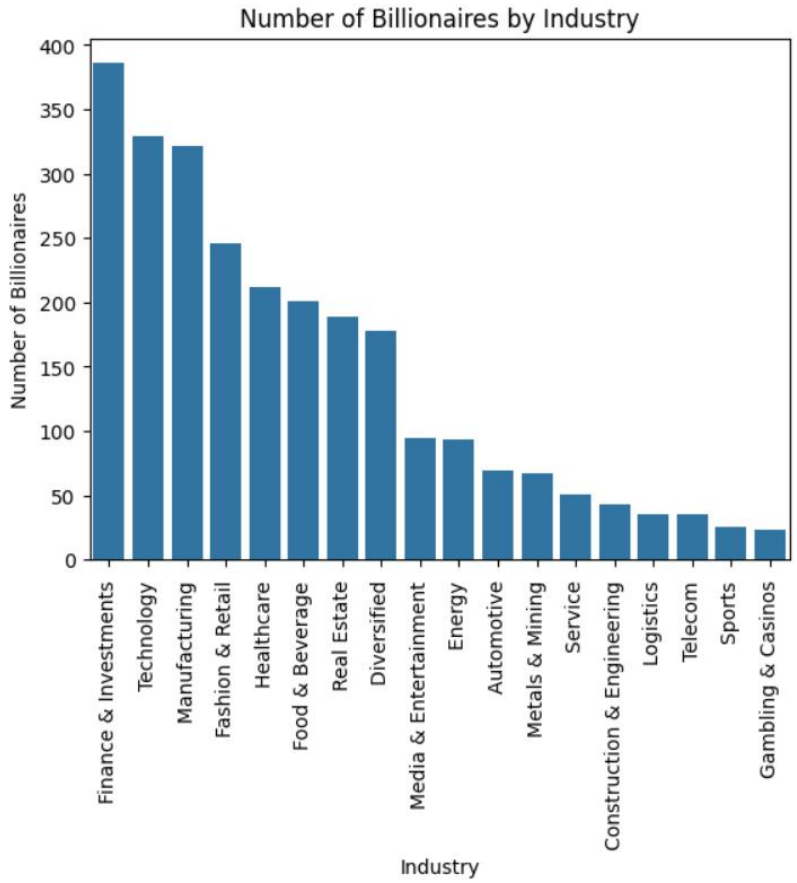
```
plt.show()
```



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