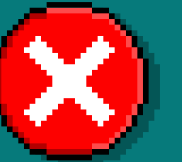
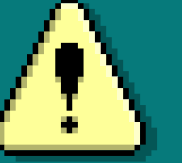
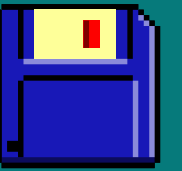
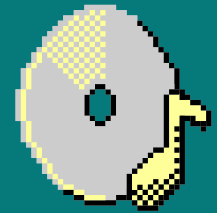
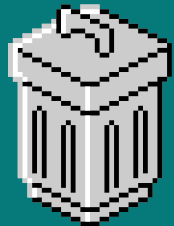
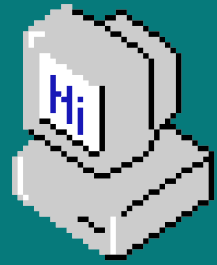
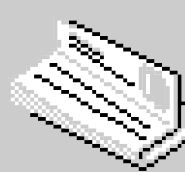
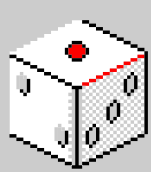
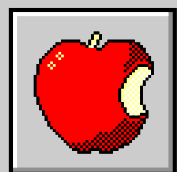


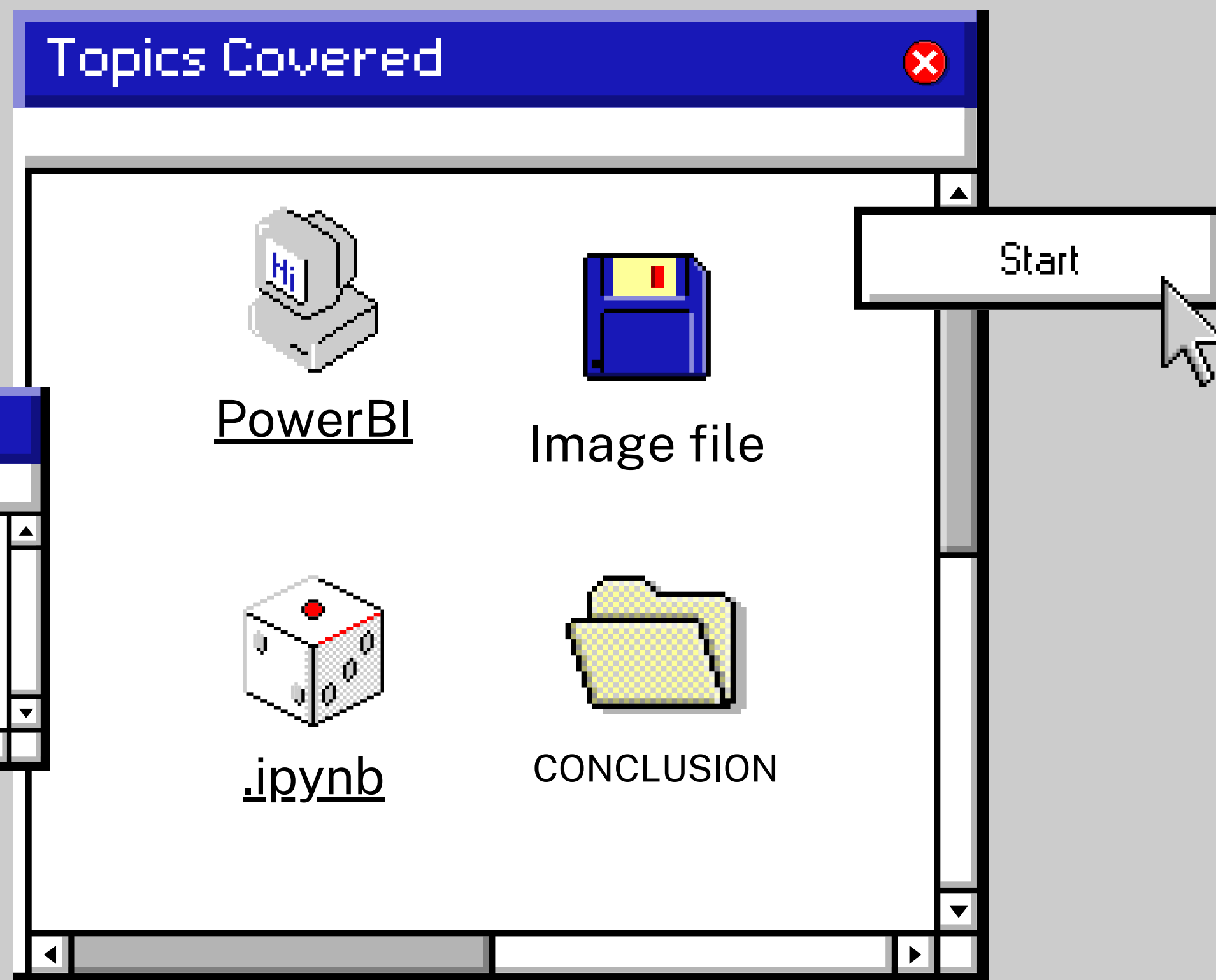
Safety Data Analytics



TEAM NAME--> 007



11:11PM

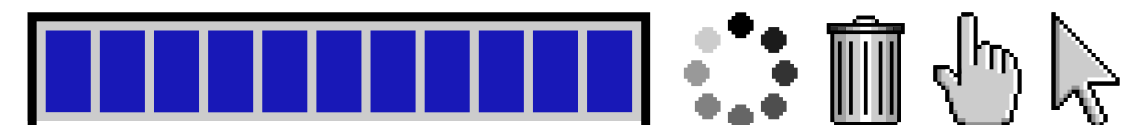
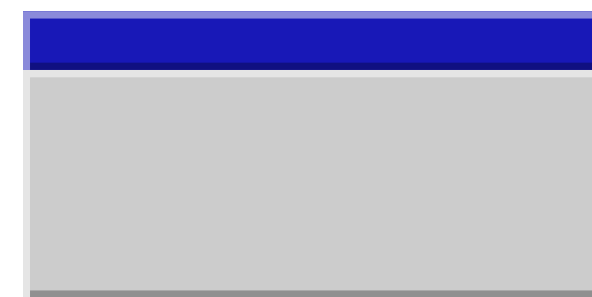
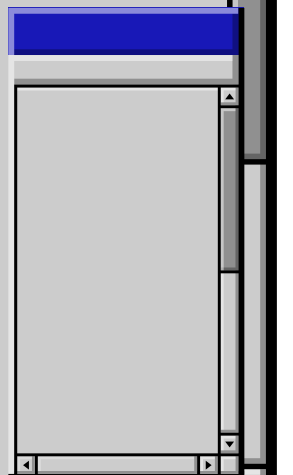
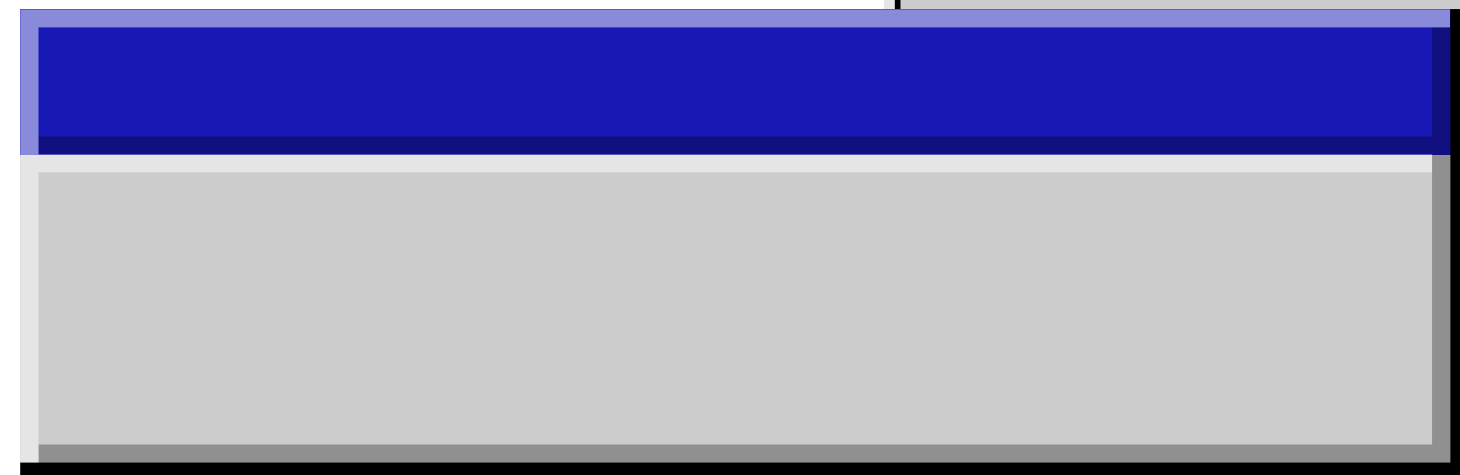
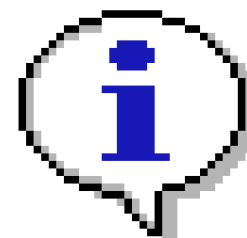
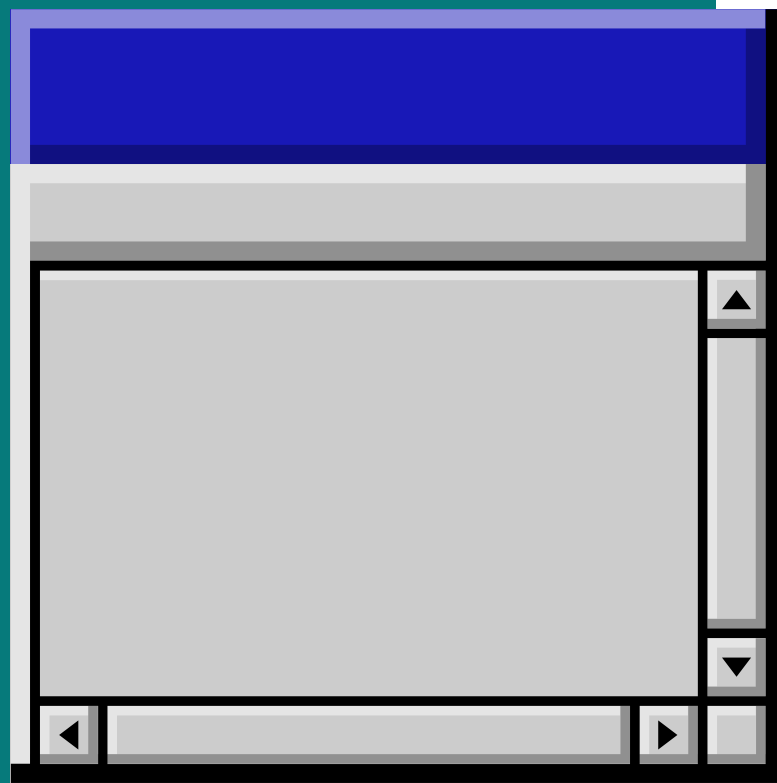
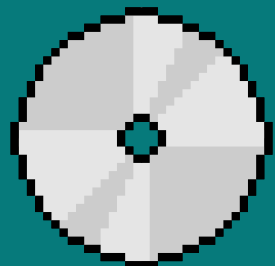
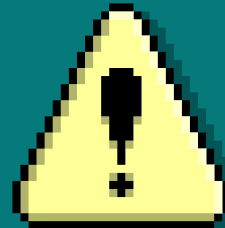
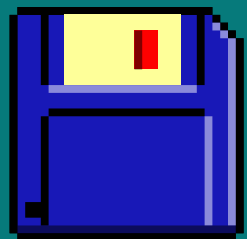


PowerBI

<https://app.powerbi.com/groups/me/reports/7e0d6687-418d-4f34-a554-f4648c3ee126/ReportSection>

Start

No

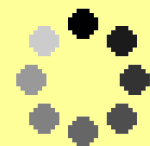
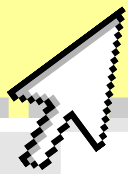




QUESTION 01



- Mention the gangue minerals associated with top five most available ore minerals found in India.

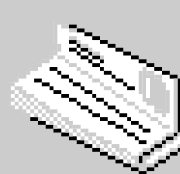
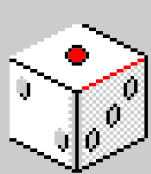
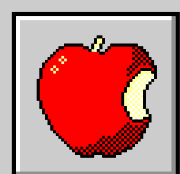
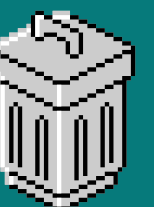
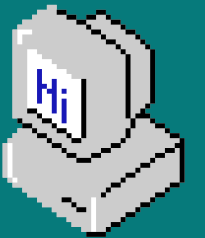
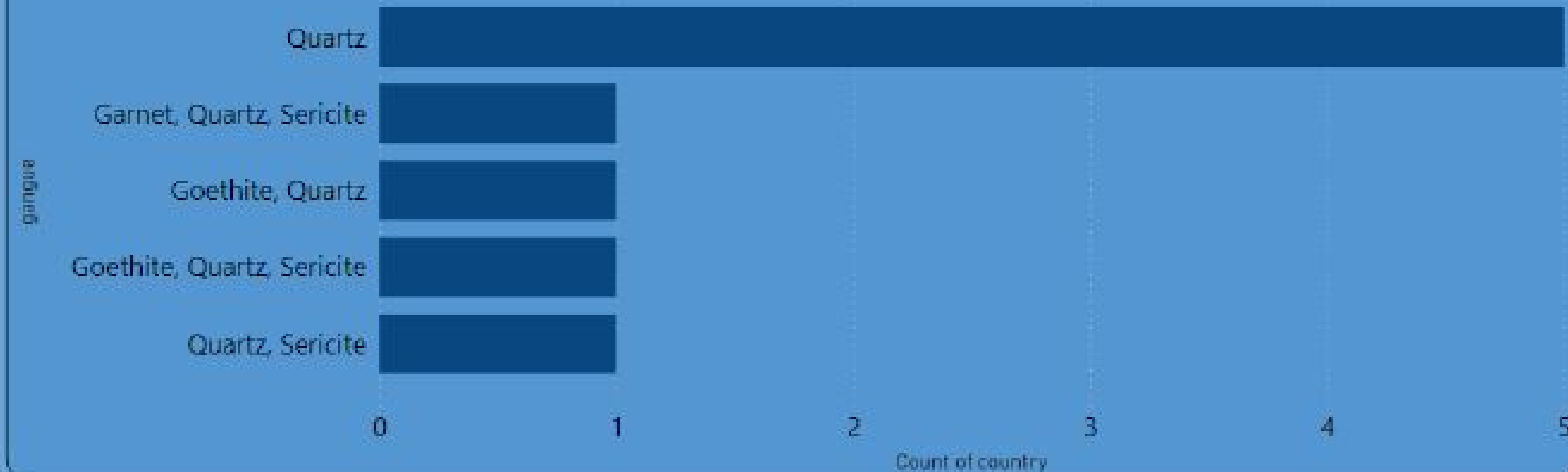




The gangue minerals associated with top five most available ore minerals found in India.



Top five most available ore minerals found in India.

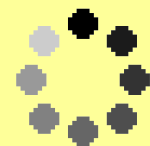
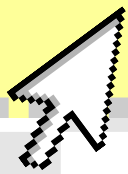




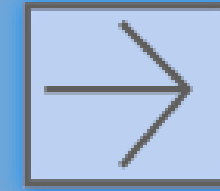
QUESTION 01



- Mention top ten leading states of the world where silver is the by-product mineral recovered from the mines which were functional in the past.



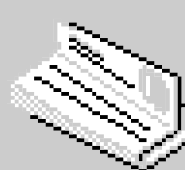
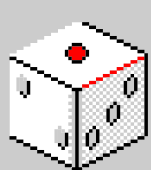
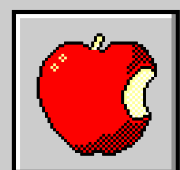
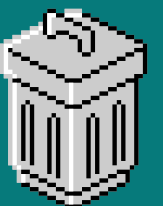
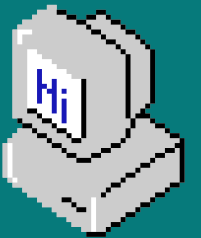
Safety Data Analytics



Mentioned top ten leading states of the world where silver is the by-product mineral recovered from the mines which were functional in the

Top ten leading states of the world where silver is the by-product mineral

Zacapa	Zambales	Zeeland	Zhejiang [Chekiang]
Zacatecas	Zambezia		
Zaire	Zamora-Chinchipe	Zufar	Zulia



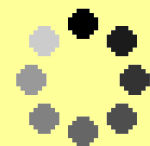
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QUESTION 01

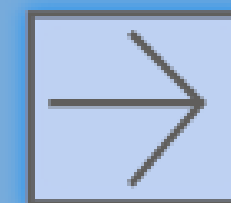


- Mention the countries of Asia with largest vein deposits.

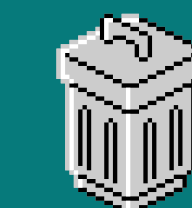
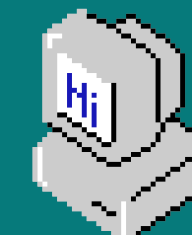




Safety Data Analytics



The countries of Asia with largest vein deposits



Ask a question about your data

Try one of these to get started

how many names are there

how many gangues are there

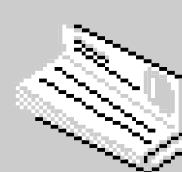
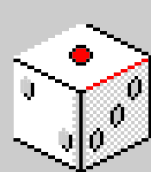
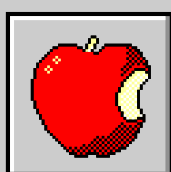
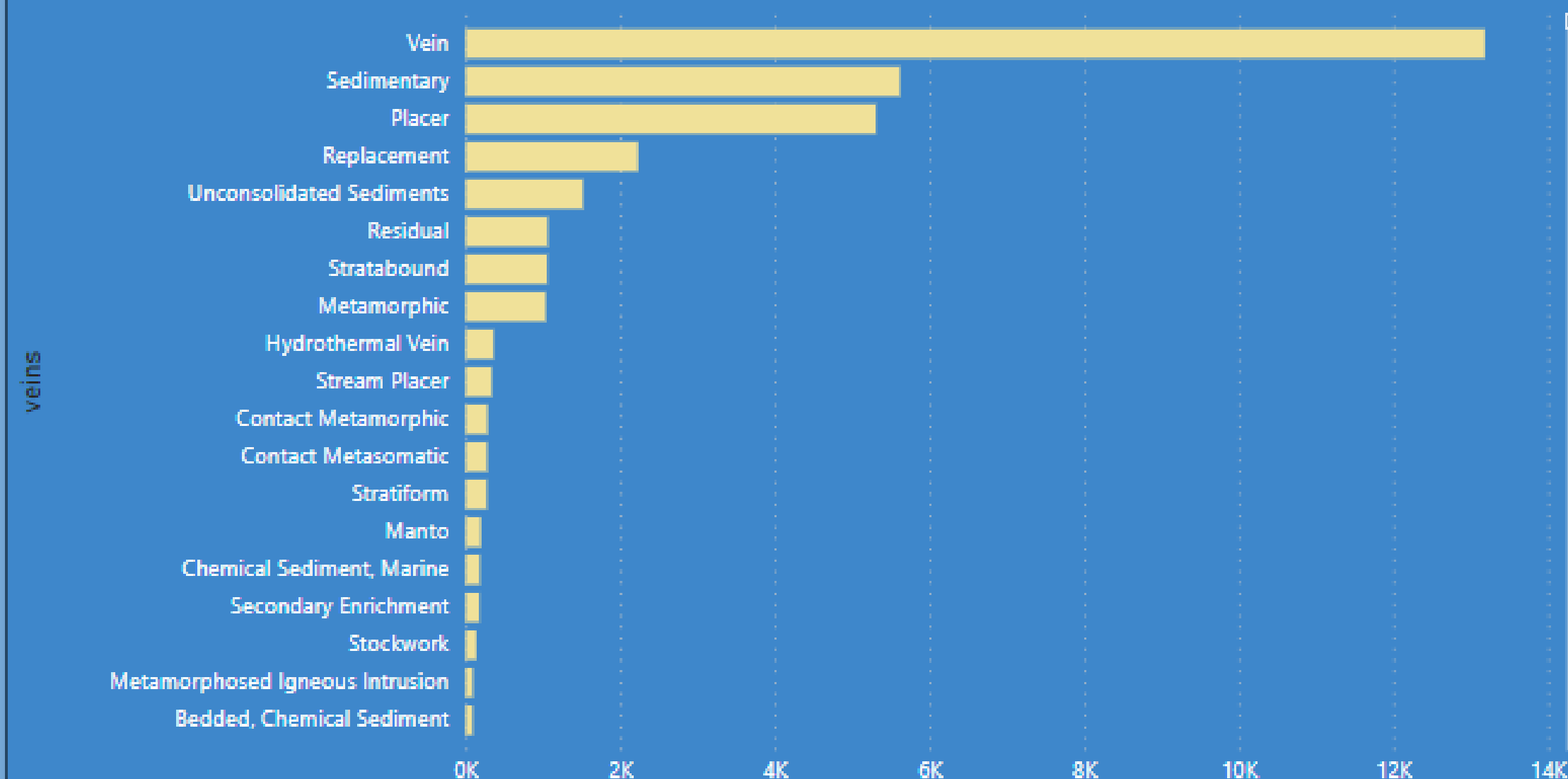
most recent gold ore 2023-2010

average gold ore 2023-2010 high

total copper ore 2023-2010 price

Show all suggestions

Countries of Asia with largest vein deposits.



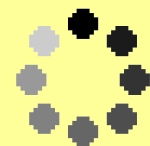
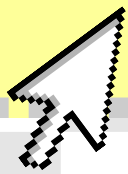
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QUESTION 01



- Mention the minerals that are abundant in US when compared with all the remaining countries combined together that can be mined in future.



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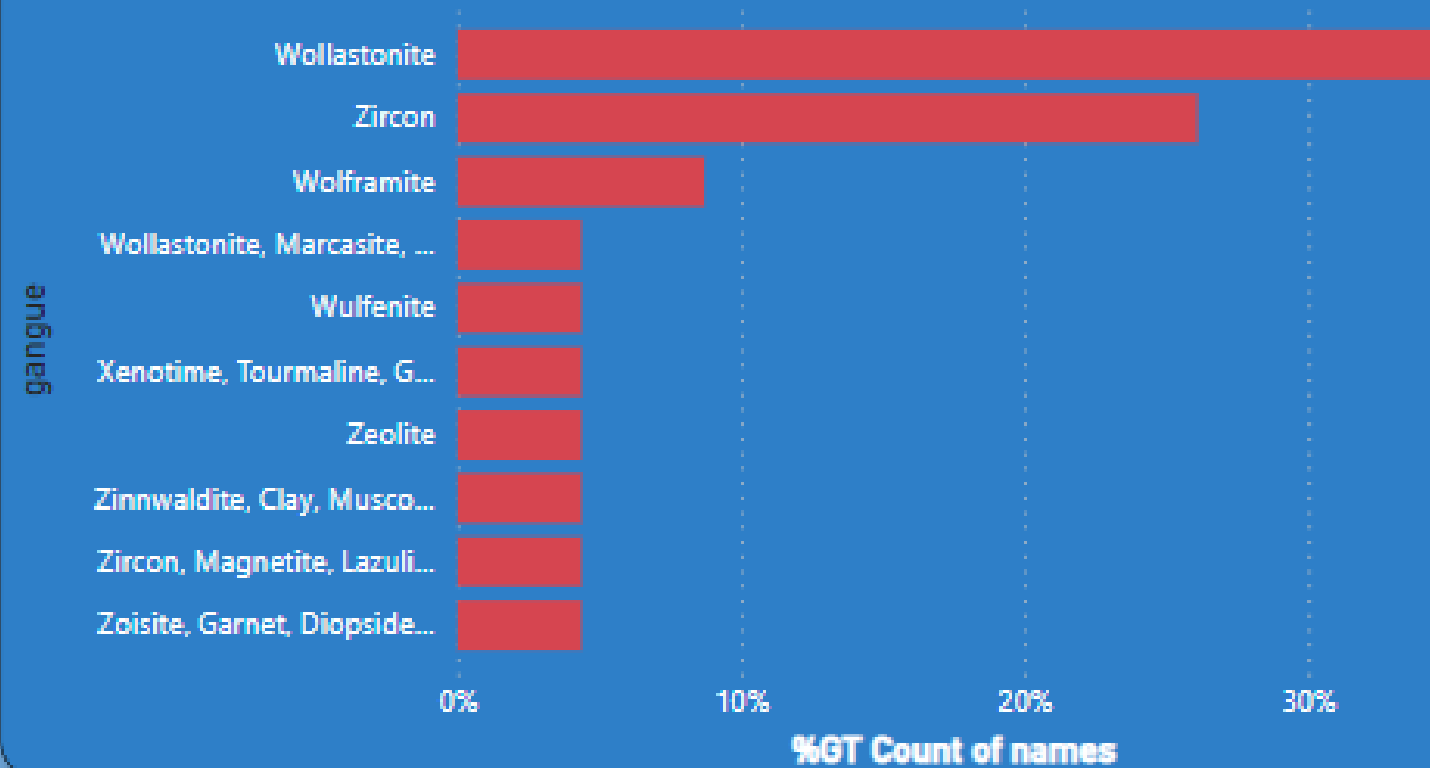


Mentioned the minerals that are abundant in US when compared with all the remaining countries combined together that can be mined in future.

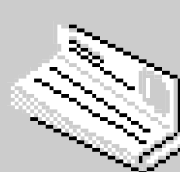
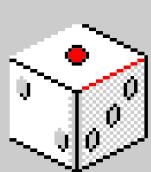
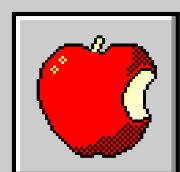
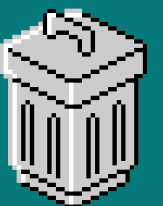
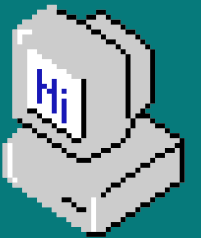
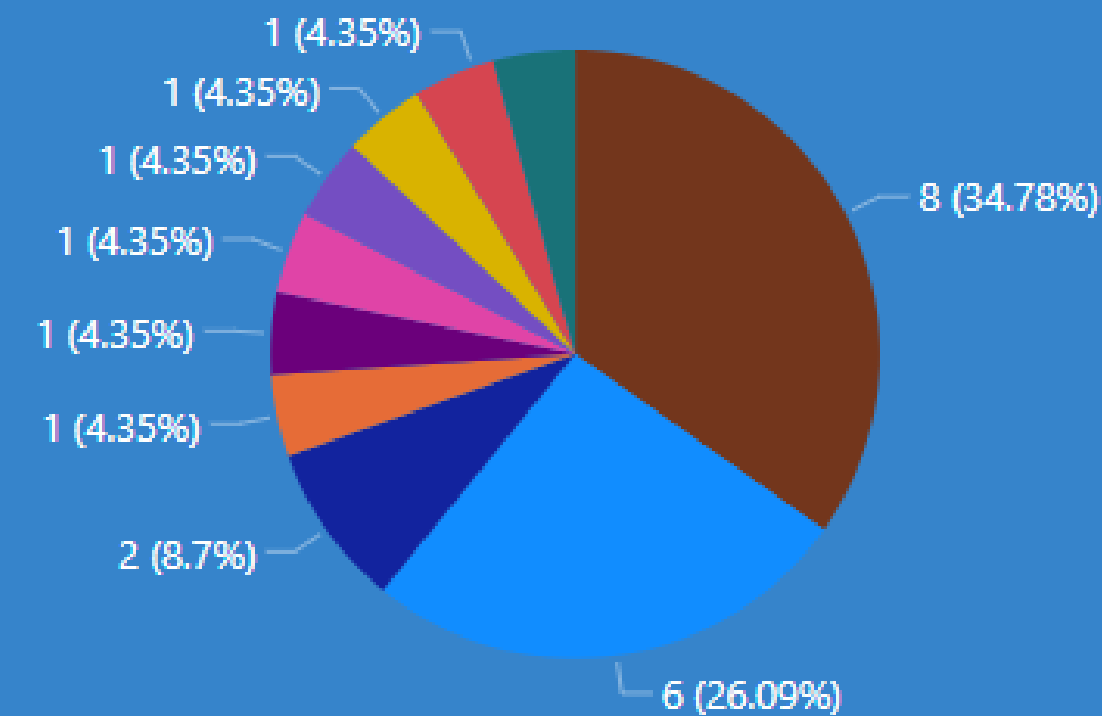
Select Country

United States

Minerals that are abundant in US



Country by gangue



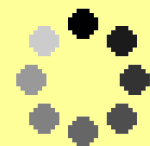
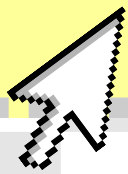
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QUESTION 01



- What percentage of metallic commodities exist in the continent of North America that can be mined using surface mining techniques and where the country rocks are sedimentary in nature.

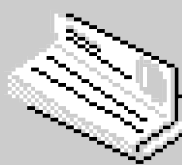
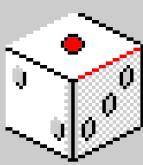
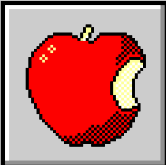
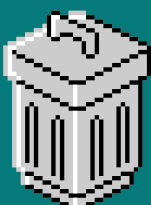
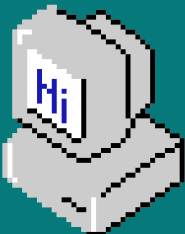
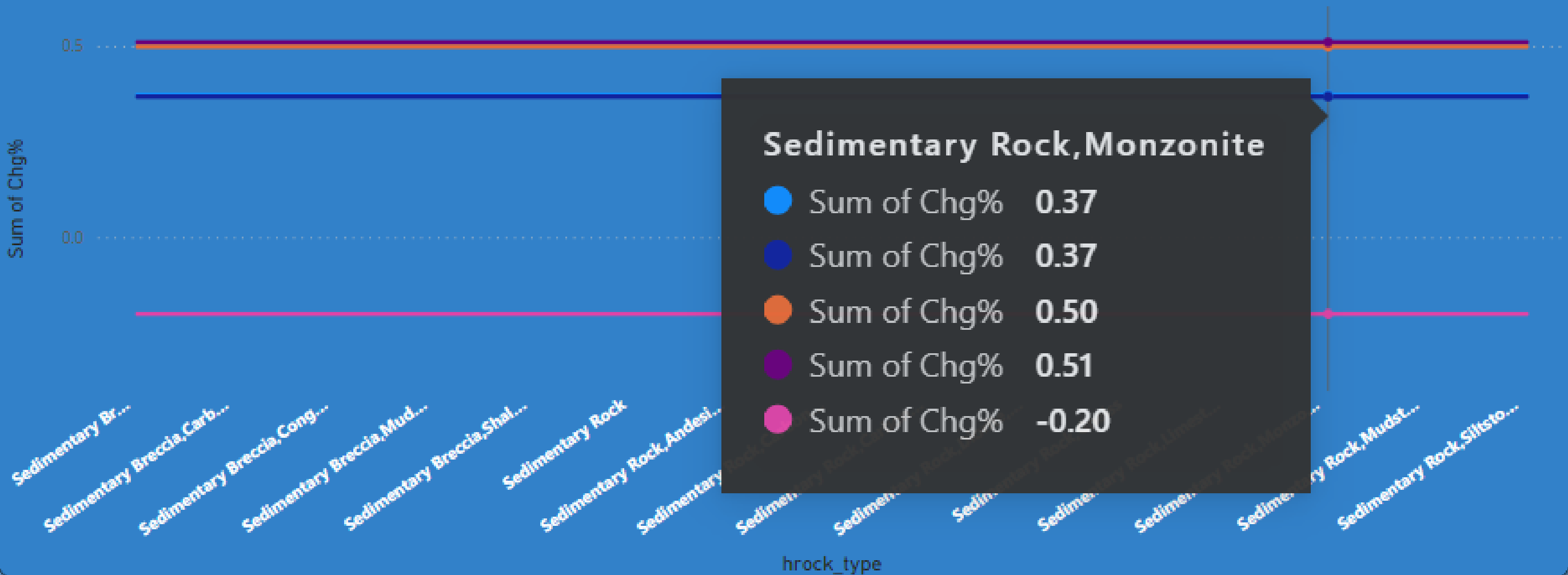




Percentage of metallic commodities exist in the continent of North America that can be mined using surface mining techniques and where the country rocks are sedimentary in nature.



Mettalic commodities of north america surface mining on sedimentary rocks

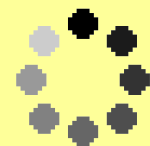
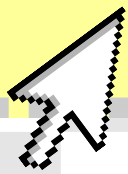




QUESTION 02



- Design a world map that locates the states of the world where gold is the most abundant mineral that can be mined in future.

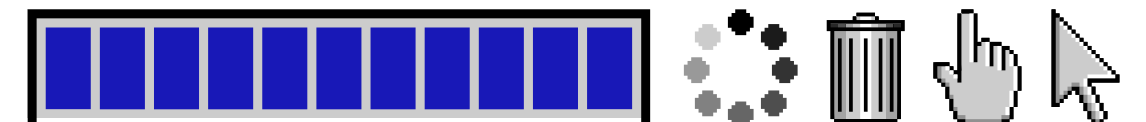
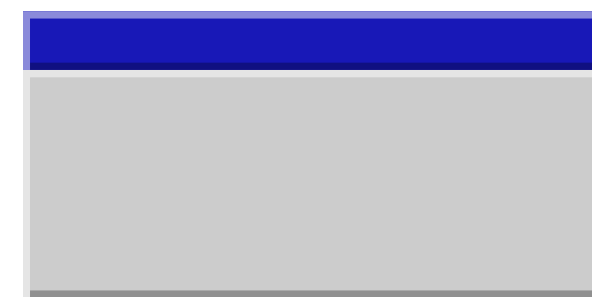
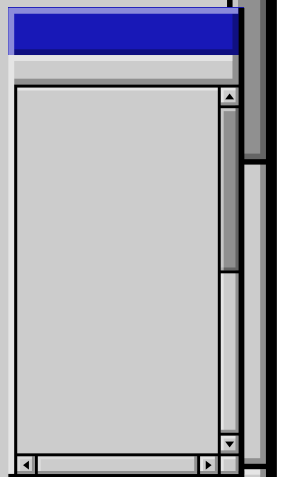
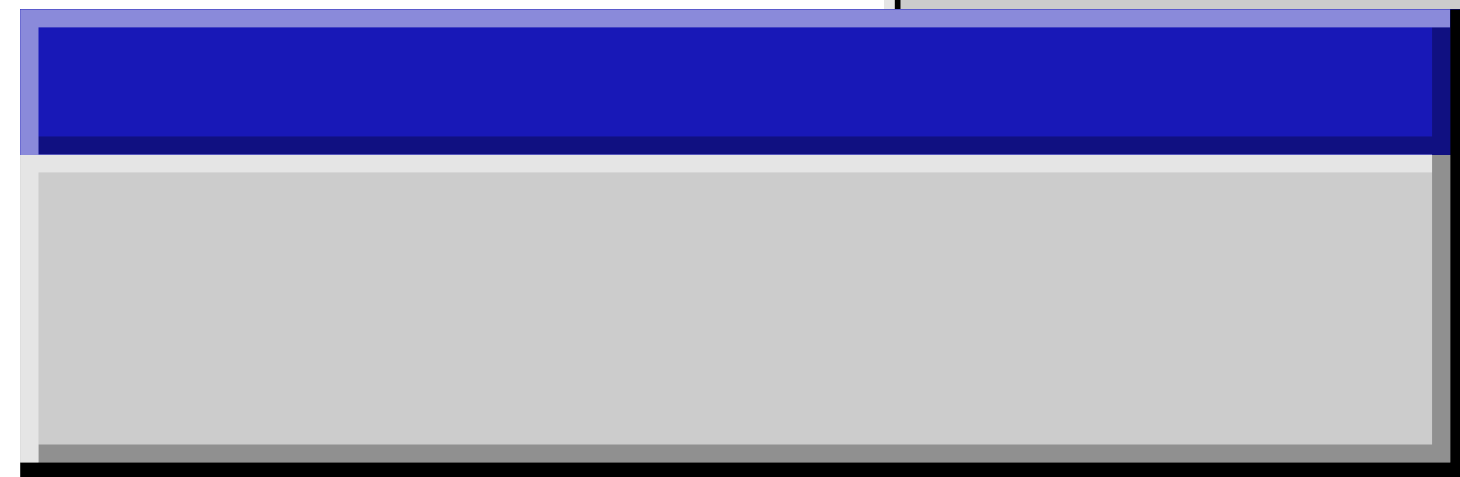
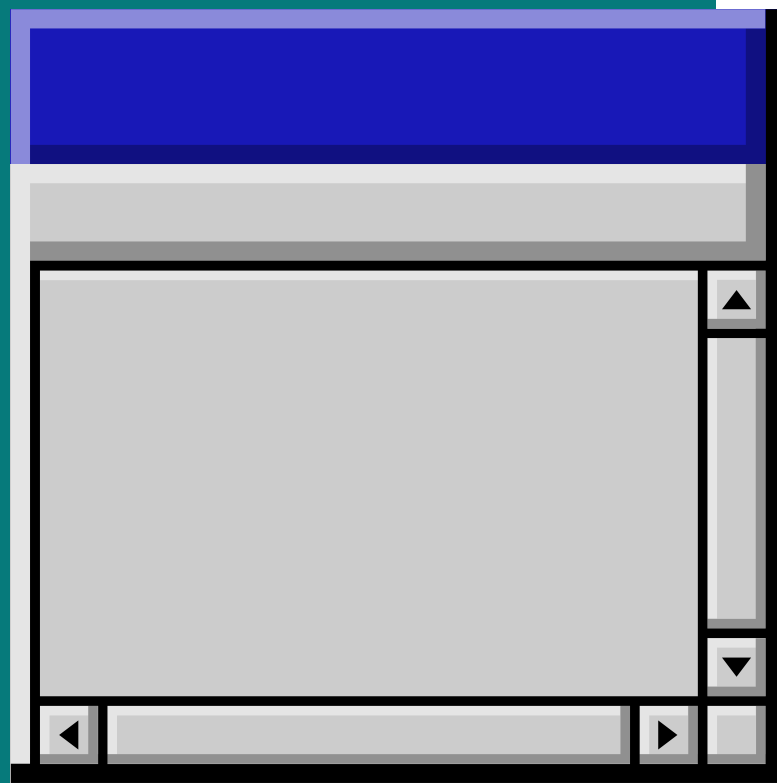
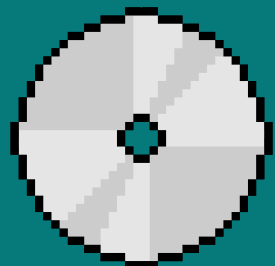
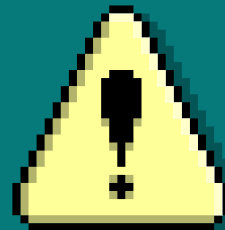
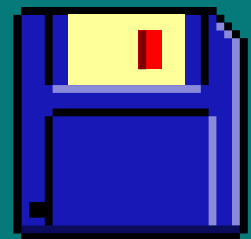


PowerBI

<https://app.powerbi.com/groups/me/reports/72d96431-a0ae-418b-8837-8da9f673fbf3/ReportSection>

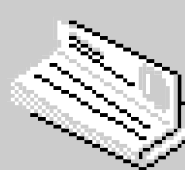
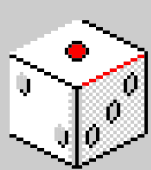
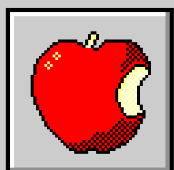
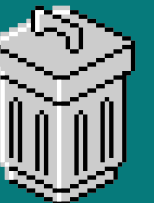
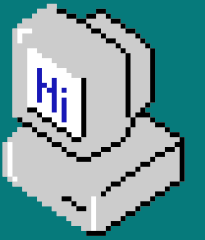
Start

No



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Design a world map that locates the states of the world where gold is he most abundant mineral that can be mined in future.



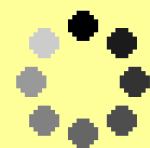
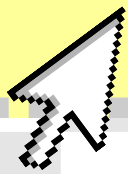
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QUESTION 03



- Continent wise ore minerals that are mined in present time.
- Top five country rocks associated with ore minerals in India
- c. By-product minerals recovered from the US states where gold and copper are abundant.

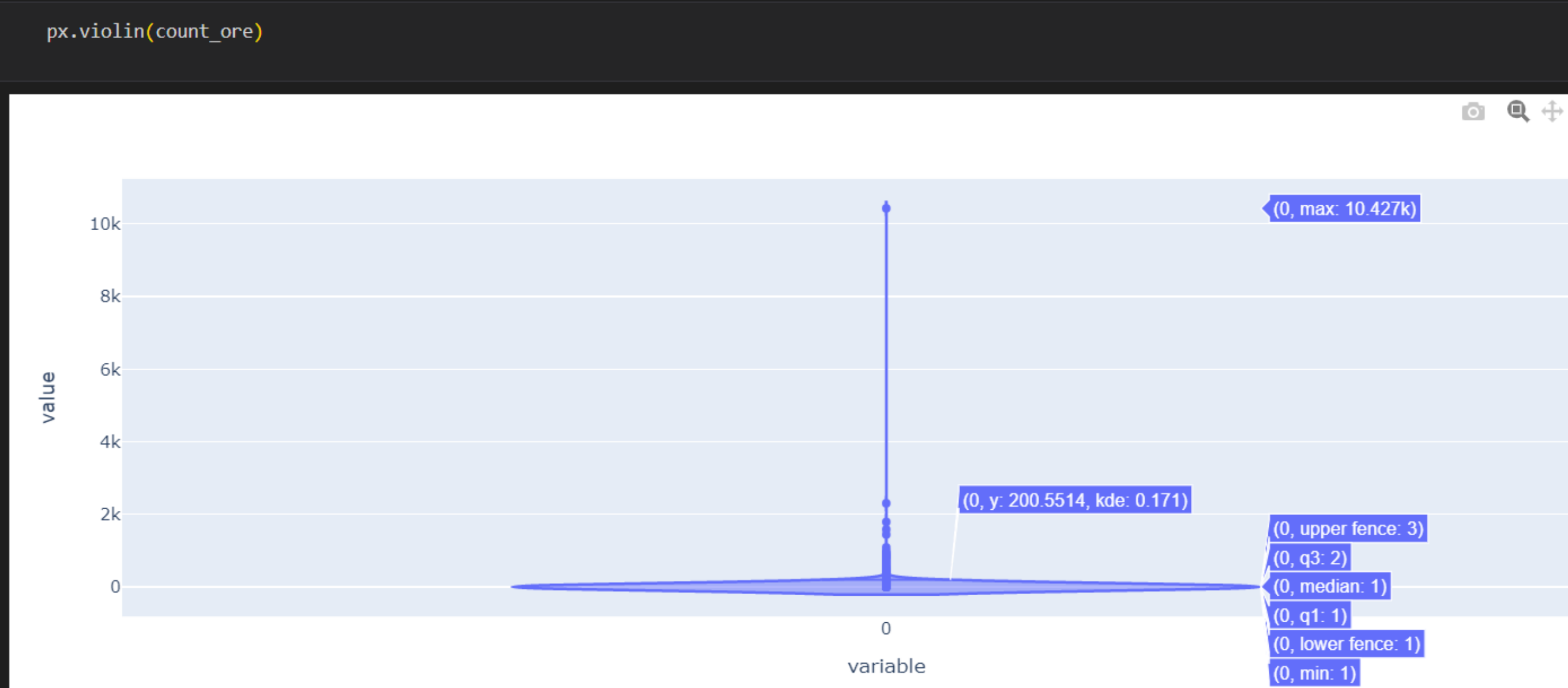


A --> Continent wise ore minerals that are mined in present time.

```
count_ore=data_frame.value_counts('ore')
count_ore
```

ore	
Gold	10427
Sand and Gravel	2305
Chromite	1792
Limestone	1585
Galena	1445
...	
Brannerite, Uraninite	
Brannerite, Parisite, Uraninite, Xenotime	
Brannerite, Galena, Parisite, Uraninite	
Brannerite, Galena, Monazite, Parisite, Thor	
Zoisite	

Length: 9825, dtype: int64



B --> Top five country rocks associated with ore minerals in India

```
counts = data_frame.groupby('country')['arock_type'].count()
sorted_counts = counts.sort_values(ascending=False)
top_five = sorted_counts.head(5)
print(top_five)
```

3]

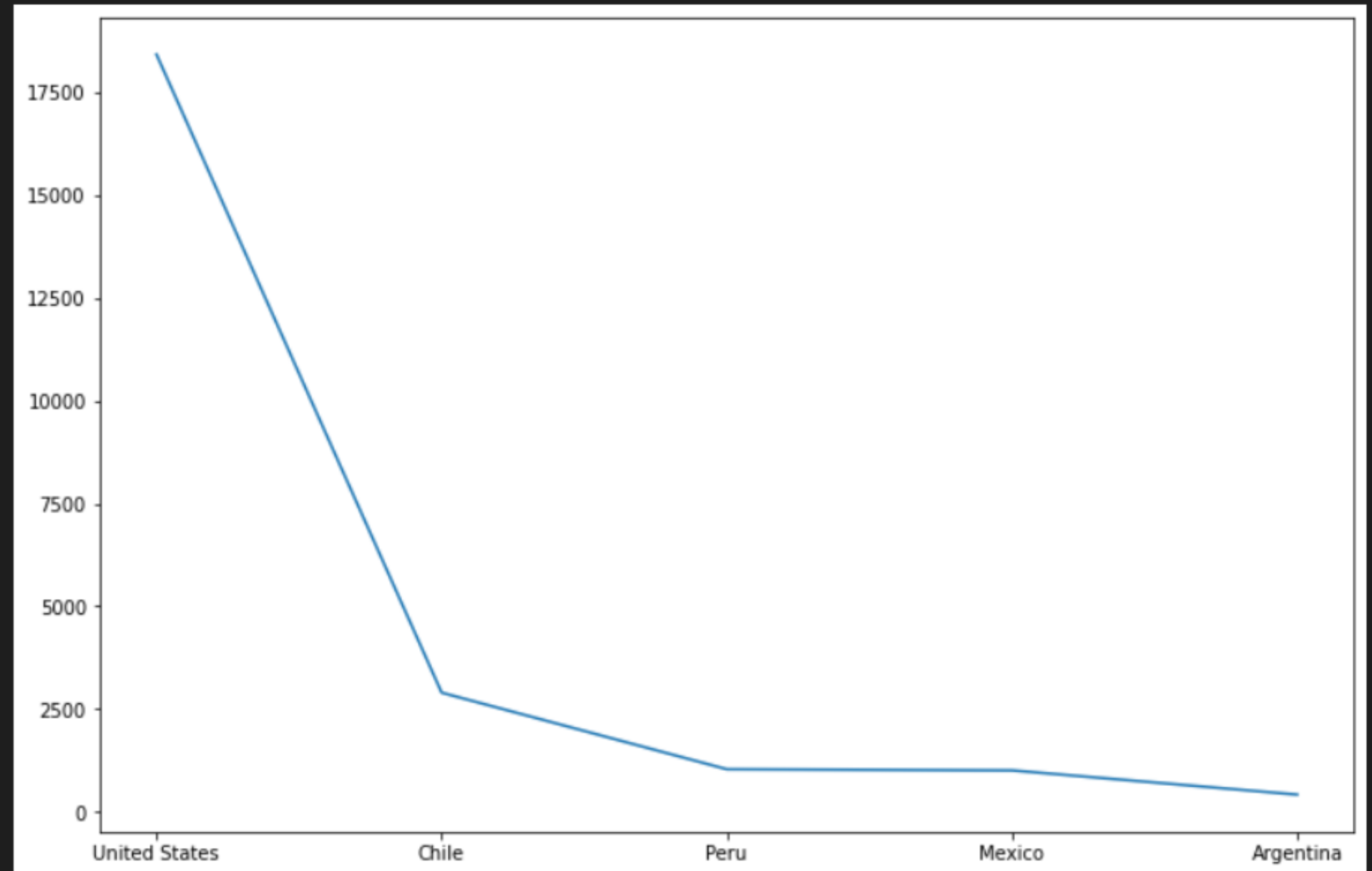
```
• country
United States    18423
Chile             2901
Peru             1039
Mexico           1011
Argentina         422
Name: arock_type, dtype: int64
```

0]

✓ 0.2s

```
• [<matplotlib.lines.Line2D at 0x2539fc5e760>]
```

>



C --> By-product minerals recovered from the US states where gold and copper are abundant

```
states = ['United States', 'Chile', 'Peru', 'Mexico', 'Argentina', 'India']  
filtered_df = data_frame[data_frame['state'].isin(states)]  
x = filtered_df[['state', 'ore']]  
counts = x['state'].value_counts()
```

```
sorted_counts = counts.sort_values(ascending=False)
```

```
print(sorted_counts)
```

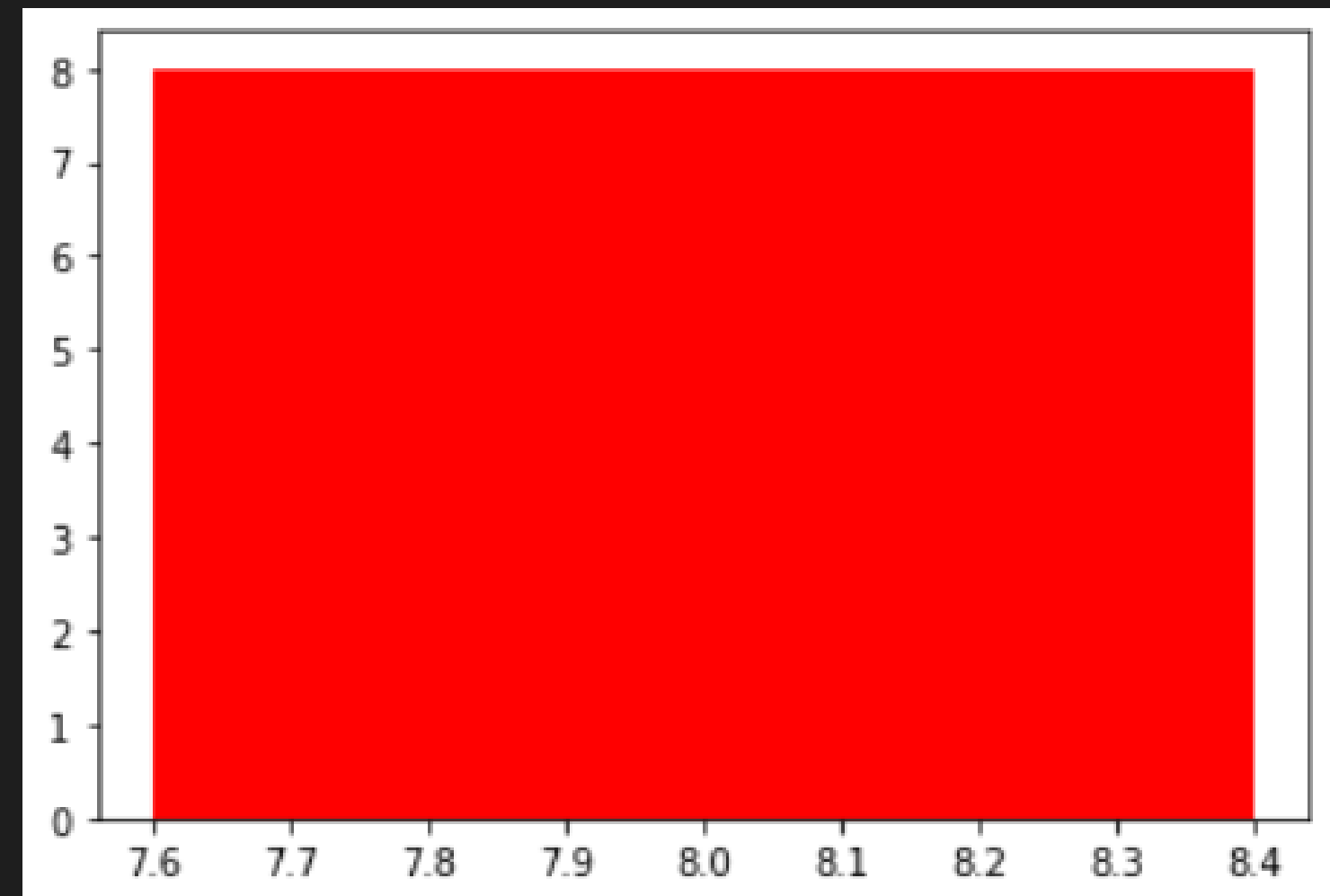
✓ 0.0s

```
Mexico      8  
Name: state, dtype: int64
```

```
plt.bar(sorted_counts, counts, color='r')
```

7] ✓ 0.2s

<BarContainer object of 1 artists>

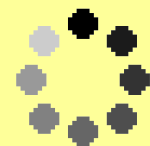
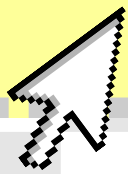




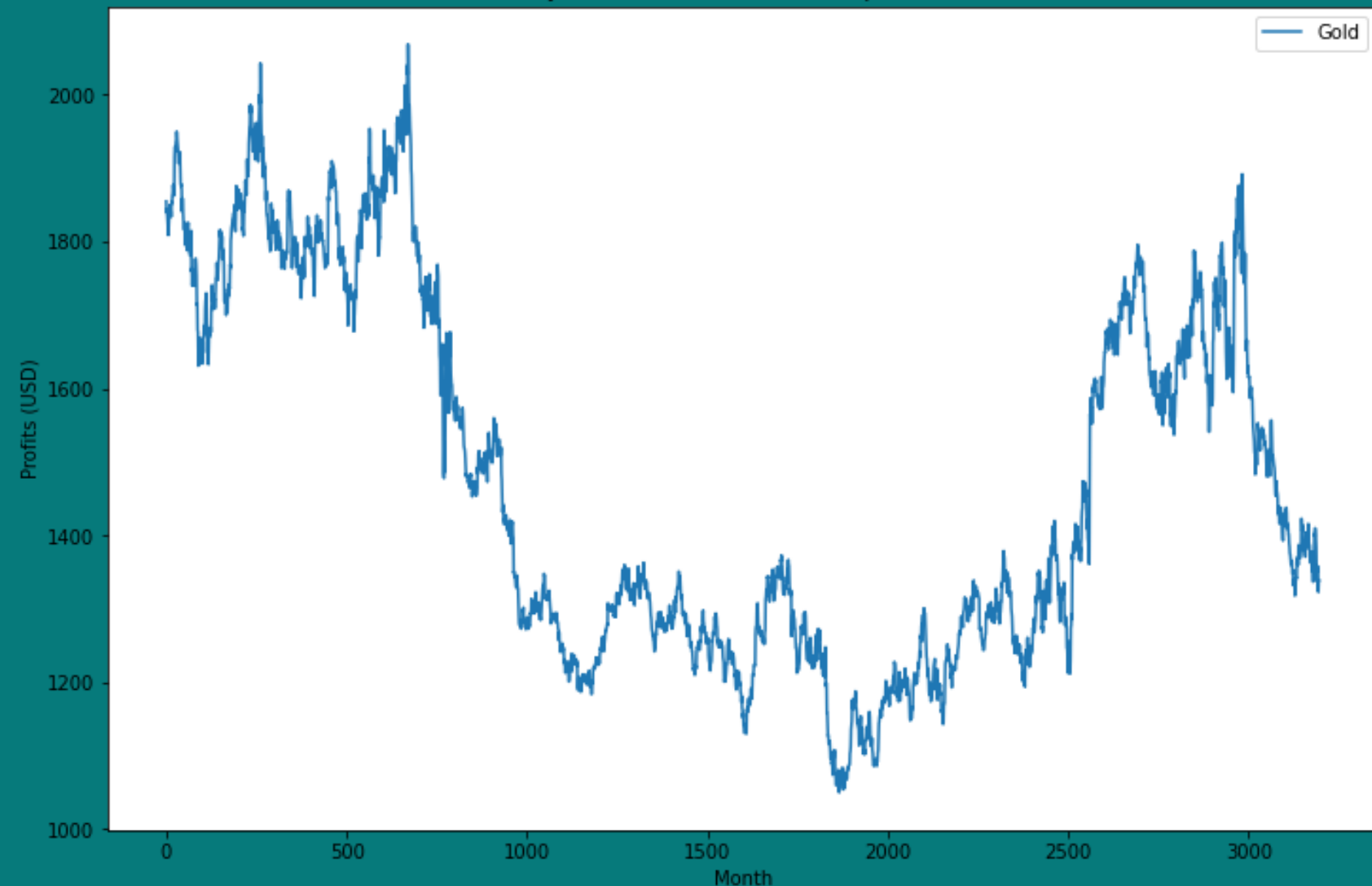
QUESTION 04



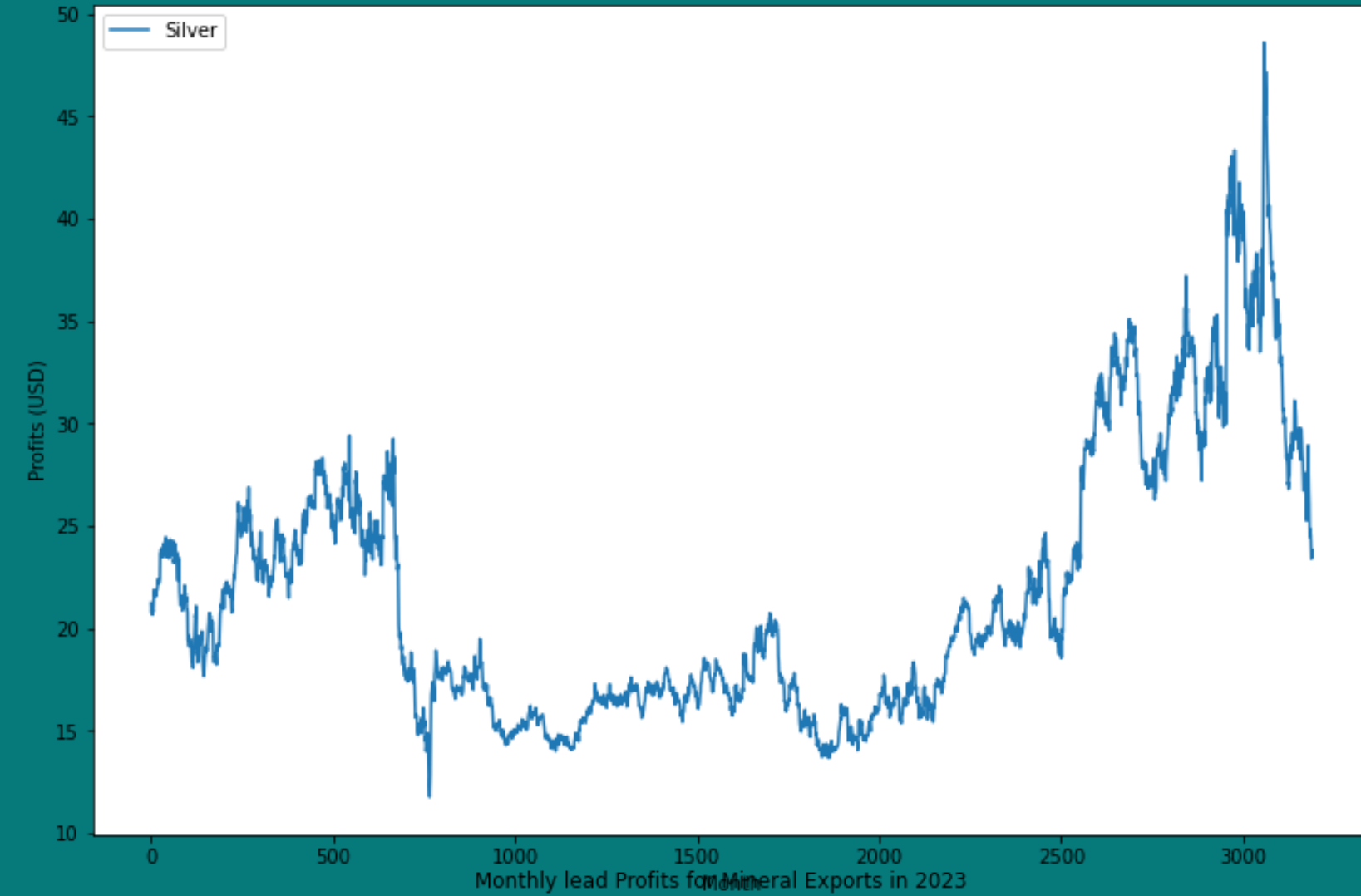
- Predict the months of 2023 where export of the minerals: gold, silver, copper, lead and iron will yield maximum profits in a visual format.



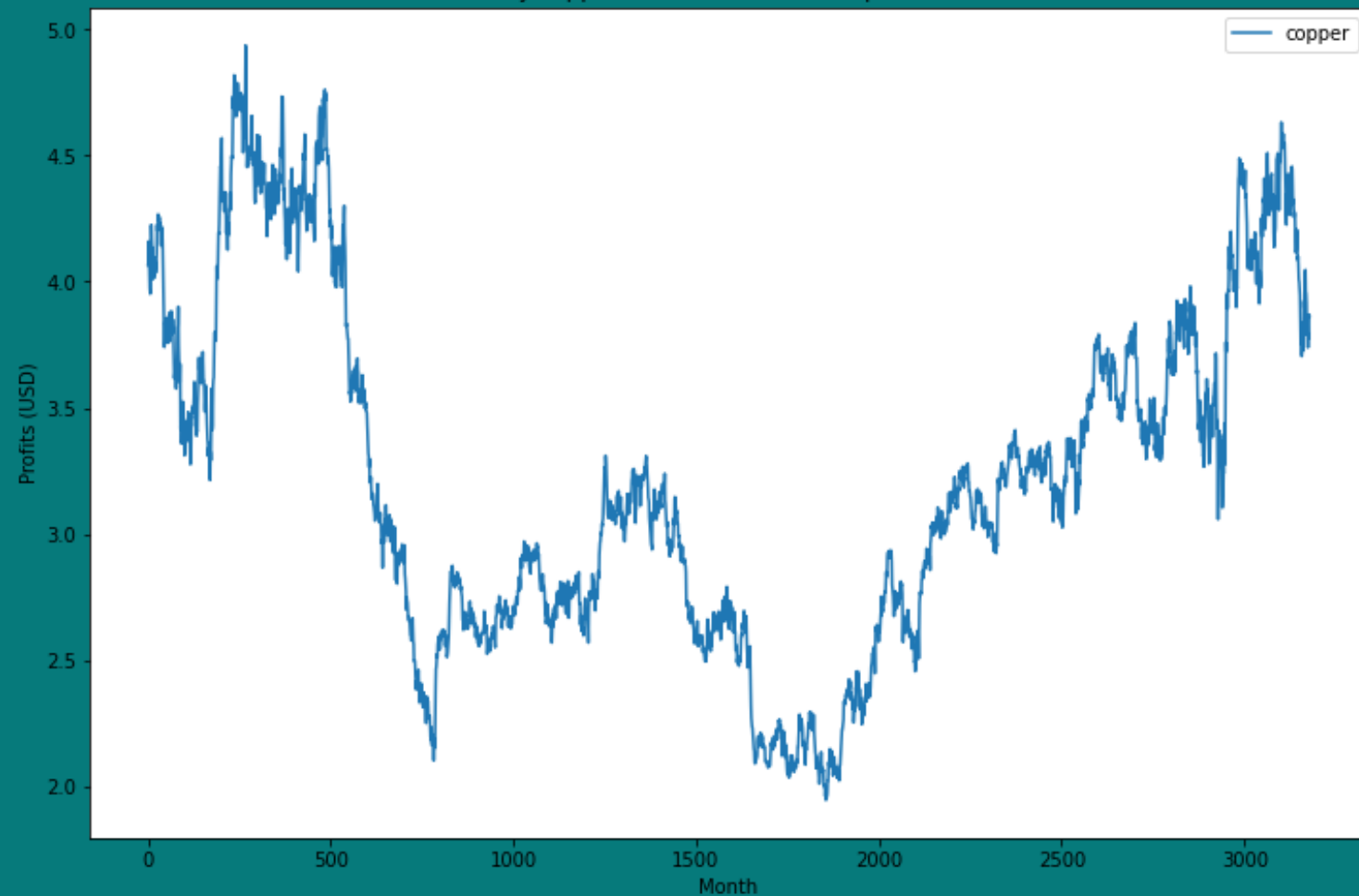
Monthly Gold Profits for Mineral Exports in 2023



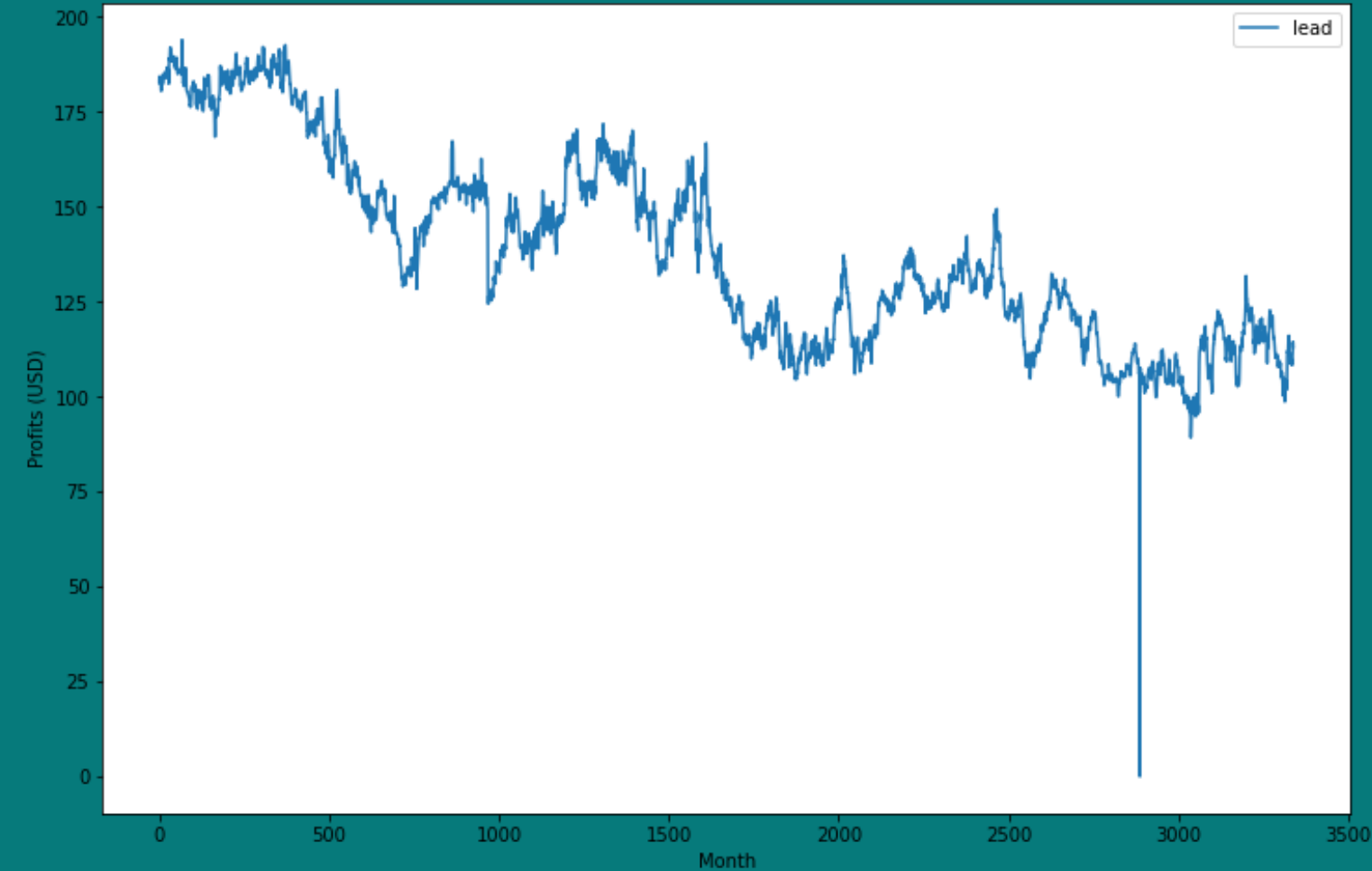
Monthly silver Profits for Mineral Exports in 2023



Monthly copper Profits for Mineral Exports in 2023



Monthly lead Profits for Mineral Exports in 2023

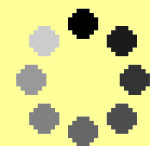
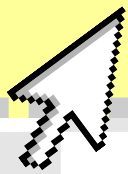


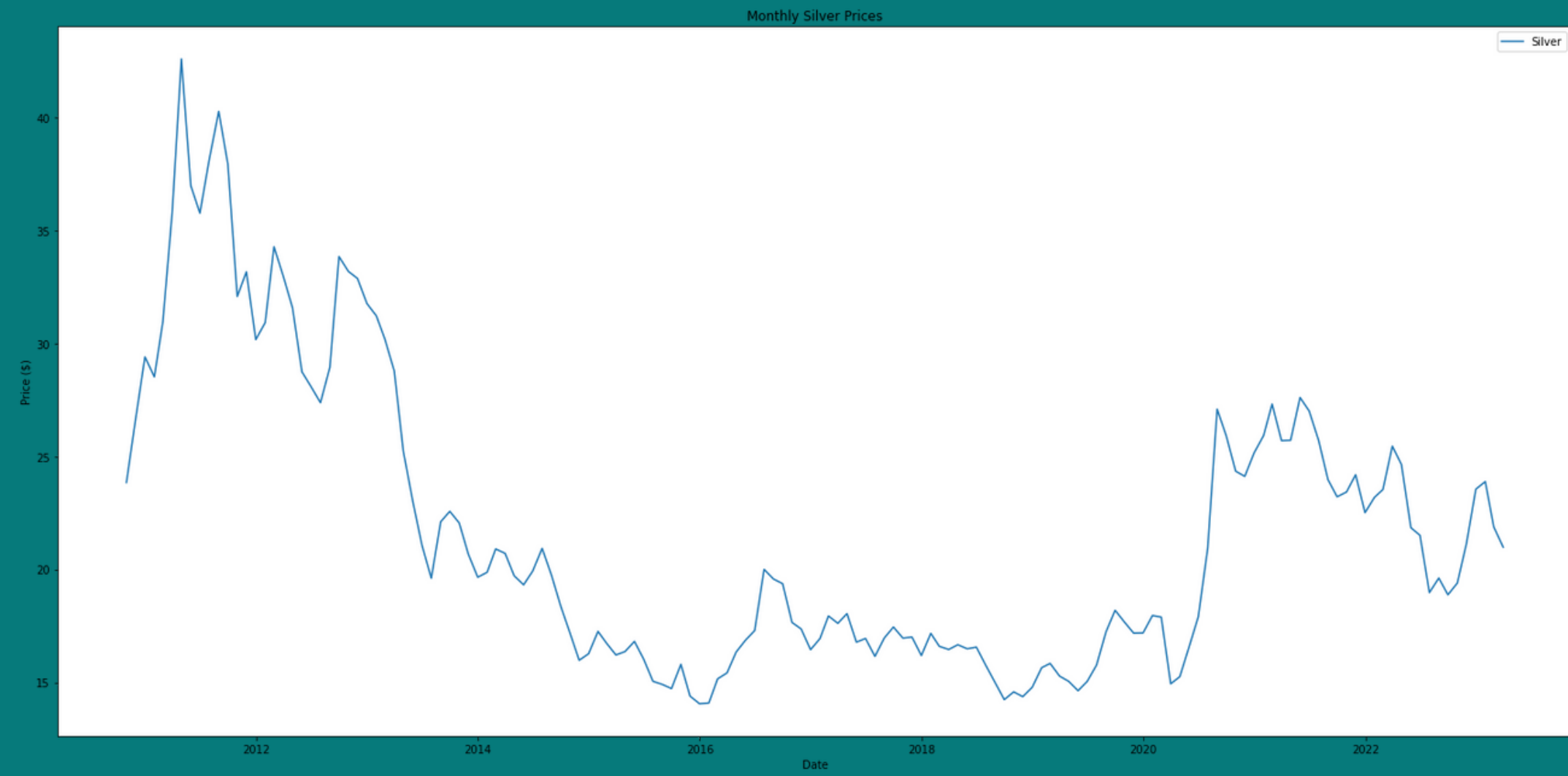
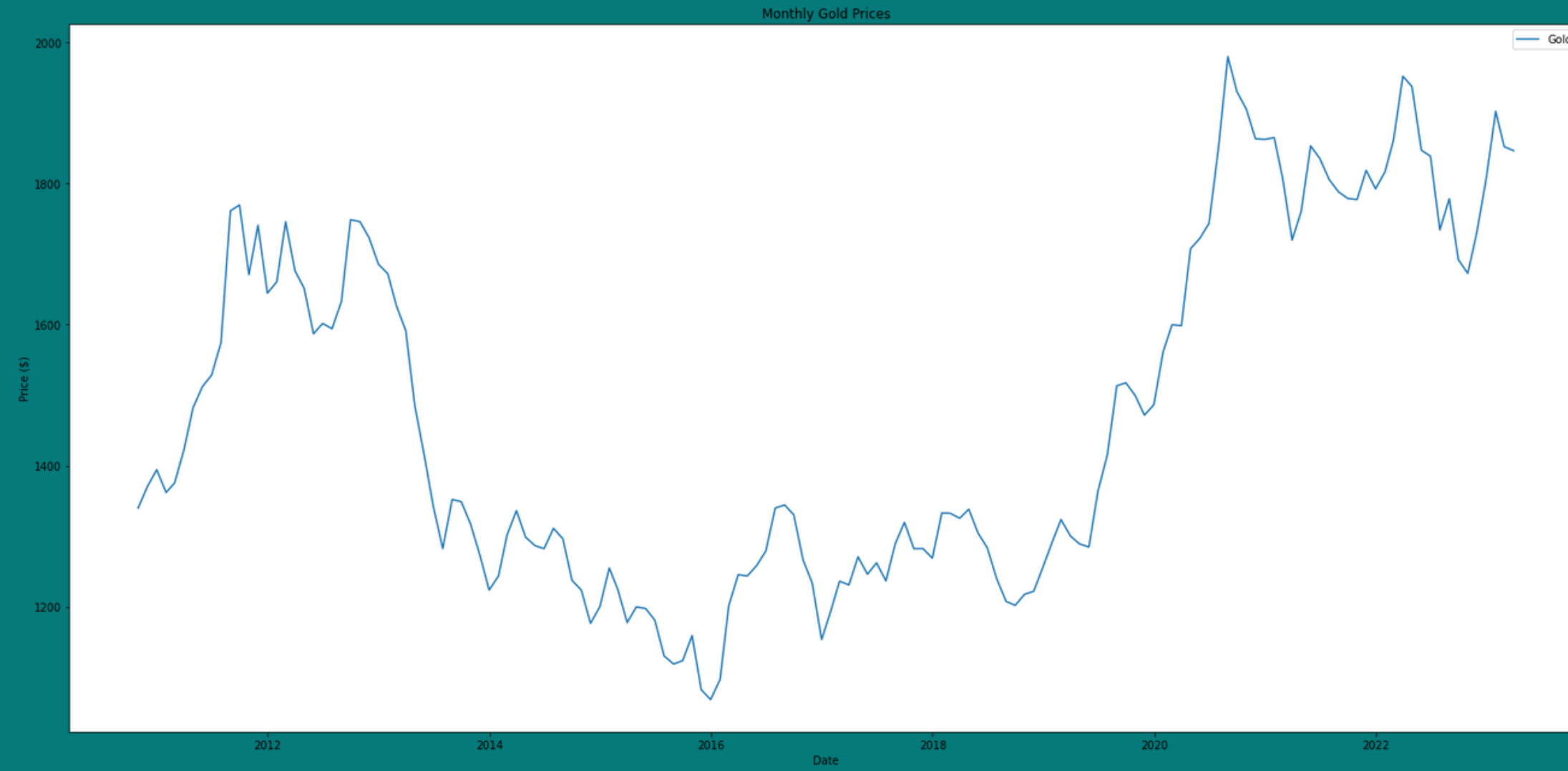


QUESTION 05

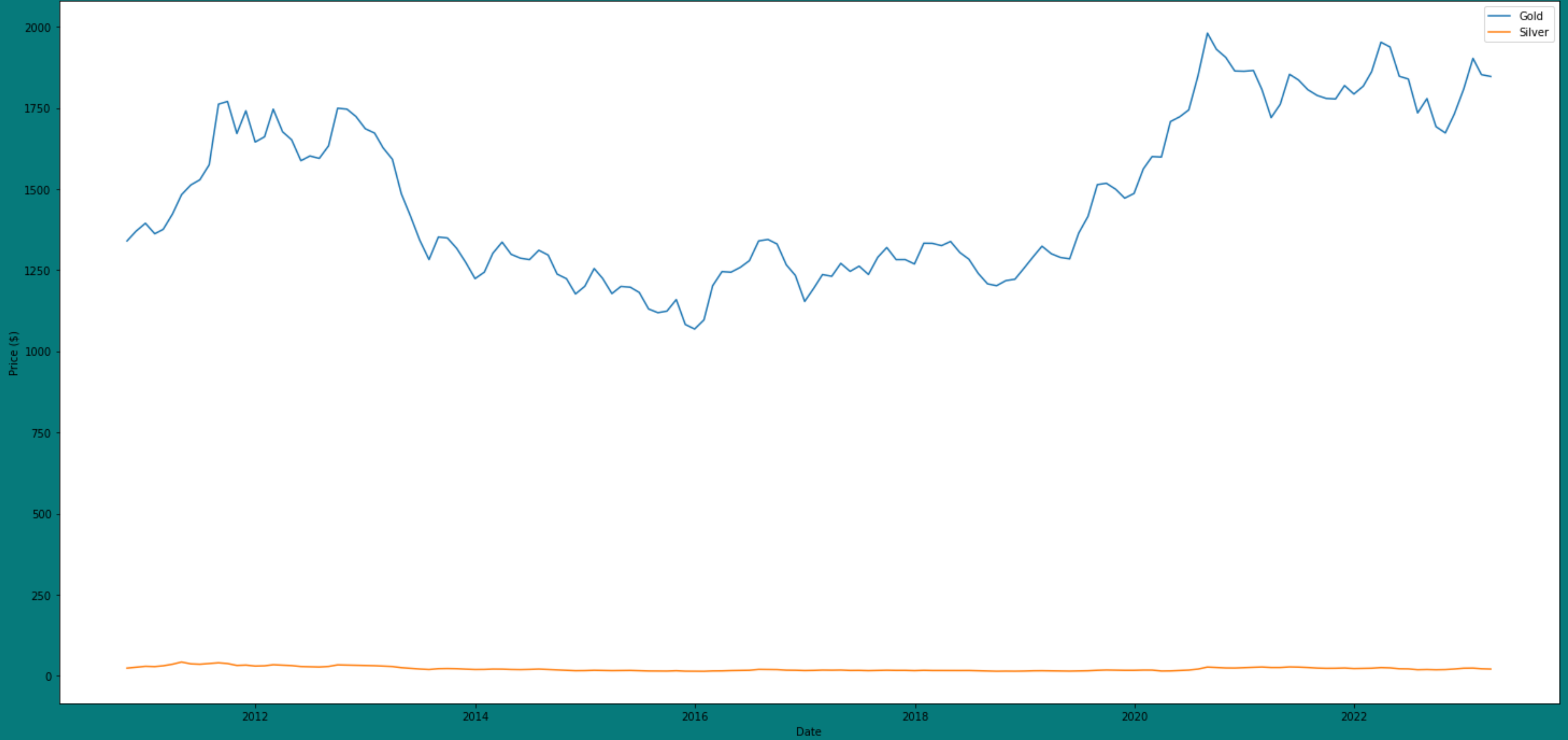


- Predict the monthly variations in price of gold and silver with clear demonstration of the price curves.





Monthly Gold and Silver Prices





Thank you!

TEAM --> 007

