MEMORY

1. **Data collection**

I obtained the data from Coinmarketcap historical section in the website.

I used the web scraping method to download all the data into a csv file, with the help of some python libraries like Selenium to develop some automated tasks and BeautifulSoup to get the required data from the website.

Link: https://coinmarketcap.com/historical/

1. **Data cleaning**

I had some important tasks like: creation of extra columns for the year and month, special characters cleaning and deleting wrong values. All those tasks were completed with Pandas. The formatted data is printed in another csv.

1. **Dashboard**

I created an interactive dynamic dashboard developed with Streamlit. It has two panels: one focus on Bitcoin and the other in crypto market in general terms.

Each panel contains a set of 4 graphs, developed entirely with Plotly library.

Link: https://share.streamlit.io/pablod1/eda-cryptocurrency/main/src/utils/dashboard/main.py

1. **Difficulties**

* Get the web scraping program to download all data at once. It took six hours to complete this.
* Knowing what data to compare and what type of graphs to use.
* Some Pandas queries to obtain the required data.

1. **Documentation**

* https://www.selenium.dev/documentation/
* https://www.crummy.com/software/BeautifulSoup/bs4/doc/
* https://plotly.com/python/
* https://pandas.pydata.org/docs/

1. **Conclusions**

My conclusion is that the cryptocurrency market is growing massively over time and a general upward trend can be seen in almost all years.

I would try to invest in stable and known cryptocurrencies, always long term and in the July or February months.

Remember to always use the money you can afford to lose. Though we can affirm is it safe you never know what can happen in the future