Assignment 2.4

Download the Breast Cancer Wisconsin dataset from https://www.kaggle.com/datasets/uciml/breast-cancer-wisconsin-data.

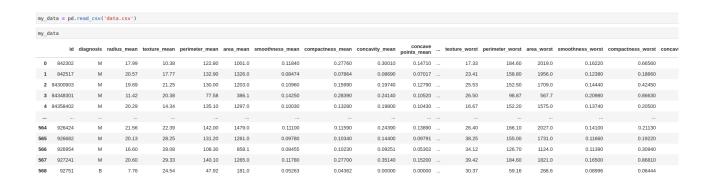
After downloading, read about scatter matrix and implement it using plotly.

Limit it to only few (5-6) features of your choice. Try to make it as readable as possible (eg. use colors to represent target class).

First, I downloaded the .csv from link as per given instruction After that I import the following required libraries

```
import pandas as pd
import plotly.express as px
```

than, I fetch data from data.csv file using pandas built in function pd.read_csv('data.csv') and stored it in a variable



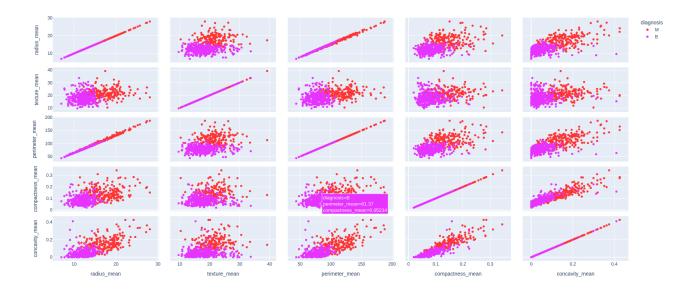
In addition, we also stored the columns name into the list name 'features'

```
features = ['radius_mean','texture_mean','perimeter_mean','compactness_mean','concavity_mean']
```

For visually observing the correlation of two columns, we used the scatter_matrix function which is the built-in function of plotly.express and passes it required argument

```
graph = px.scatter_matrix(my_data, dimensions=features, color='diagnosis',color_discrete_sequence=['#FF3333','#E633FF'],height=800)
```

and, here is final output



Basically, the graph shows the relationship of two column at a time with respect to diagnosis 'M' and 'B'