

Este es el primer analisis que hago usando Python.

importo librerias y veo columnas el dataset

```
In [2]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

df =pd.read_csv("Student Mental Health.csv")

df.columns
```

```
Out[2]: Index(['Timestamp', 'Choose your gender', 'Age', 'What is your course?',
        'Your current year of Study', 'What is your CGPA?', 'Marital status',
        'Do you have Depression?', 'Do you have Anxiety?',
        'Do you have Panic attack?',
        'Did you seek any specialist for a treatment?'],
        dtype='object')
```

```
In [3]: df.head()
```

```
Out[3]:
```

	Timestamp	Choose your gender	Age	What is your course?	Your current year of Study	What is your CGPA?	Marital status	Do you have Depression?	Do you have Anxiety?	Do you have Panic attack?
0	8/7/2020 12:02	Female	18.0	Engineering	year 1	3.00 - 3.49	No	Yes	No	
1	8/7/2020 12:04	Male	21.0	Islamic education	year 2	3.00 - 3.49	No	No	Yes	
2	8/7/2020 12:05	Male	19.0	BIT	Year 1	3.00 - 3.49	No	Yes	Yes	
3	8/7/2020 12:06	Female	22.0	Laws	year 3	3.00 - 3.49	Yes	Yes	No	
4	8/7/2020 12:13	Male	23.0	Mathematics	year 4	3.00 - 3.49	No	No	No	

```
In [13]: ##¿Que generos existen?

df["Choose your gender"].unique()

Object `existen` not found.
Out[13]: array(['Female', 'Male'], dtype=object)
```

```
In [14]: #¿Cuantas personas hay por genero?

df["Choose your gender"].value_counts()

Out[14]: Female    75
Male        26
Name: Choose your gender, dtype: int64
```

In [3]: *#promedio de edad*

```
df["Age"].mean()
```

Out[3]: 20.53

In [12]: *#cuantos tienen depresion?*

```
df["Do you have Depression?"].value_counts()
```

Out[12]:

No	66
Yes	35

Name: Do you have Depression?, dtype: int64

In [32]: *#que sexo suele ser mas depresivo*

```
df.groupby(["Choose your gender"])["Do you have Depression?"].value_counts()
```

Out[32]:

Choose your gender	Do you have Depression?	
Female	No	46
	Yes	29
Male	No	20
	Yes	6

Name: Do you have Depression?, dtype: int64

In [8]: *#que sexo tiene mas ansiedad*

```
df.groupby(["Choose your gender"])["Do you have Anxiety?"].value_counts()
```

Out[8]:

Choose your gender	Do you have Anxiety?	
Female	No	51
	Yes	24
Male	No	16
	Yes	10

Name: Do you have Anxiety?, dtype: int64

In [9]: *#que sexo suele tener mas ataques de panico*

```
df.groupby(["Choose your gender"])["Do you have Panic attack?"].value_counts()
```

Out[9]:

Choose your gender	Do you have Panic attack?	
Female	No	50
	Yes	25
Male	No	18
	Yes	8

Name: Do you have Panic attack?, dtype: int64

Hechas estas 3 observaciones, se puede ver que en cada una de las patologías estudiadas suele predominar en el sexo femenino

Graficos

In [8]:

```
a = df["Do you have Depression?"].value_counts()
a.plot(kind="pie")
plt.show()
```

#se puede ver que la mayoría NO tiene depresion.

