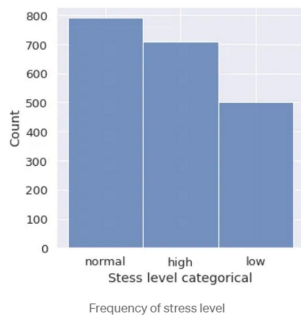


Exploratory Data Analysis (day 2)**Graphs for categorical and numerical Data:****Categorical:**

Graphs used can be:

- Histogram

```
sns.histplot(data=df, x='Stess level categorical')
```

**Numerical:**

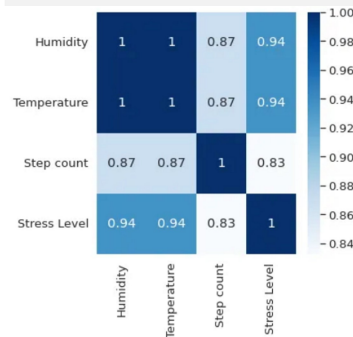
Numerical values can be either discrete or continuous.

Graphs used can be:

- Histogram
- Heatmap:

The diagonal line describes the correlation among the same feature. The rest describe the correlation between the other features. For example, this heatmap shows that temperature is highly correlated with humidity. Also, humidity and temperature are highly correlated to the target stress level.

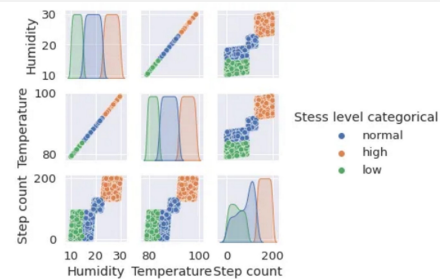
```
sns.heatmap(data=df[['Humidity', 'Temperature', 'Step count', 'Stress Level categorical']].corr(), cmap='Blues', annot=True)
```



- Pairplot:

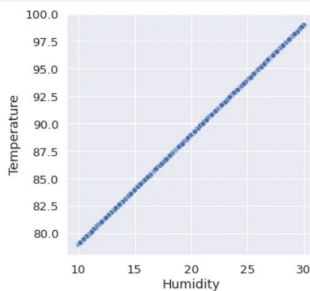
visualises the distribution of data for each target class.

```
sns.pairplot(data=df[['Humidity', 'Temperature', 'Step count', 'Stress level categorical']], hue='Stess level categorical', height=1.5)
```

**Numerical vs Numerical:**

- Scatter plot:

```
sns.scatterplot(data=df, x='Humidity', y='Temperature')
```



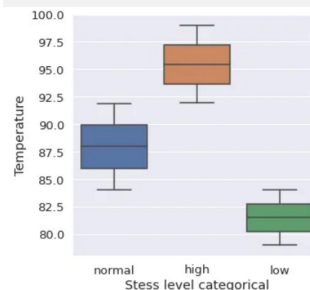
- LinePlot:

```
sns.lineplot(data=df, x='Step count', y='Temperature')
```

**Categorical vs categorical:**

- Scatter plot
- Lineplot
- Boxplot:

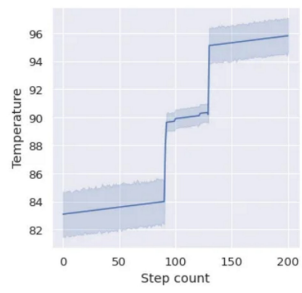
```
sns.boxplot(data=df, x='Stess level categorical', y='Temperature')
```



- Barplot:

```
sns.barplot(data=df, x='Stess level categorical', y='Temperature')
```





- Barplot:

```
sns.barplot(data=df, x='Stess level categorical', y='Temperature')
```

