In this notebook, I have explored the data, transformed the data to required format and then analyzed the data using Pandas & found the below observations:

- Top 10 companies that laid off
- Top 3 companies that laid off year-wise
- Top 3 locations where most layoffs happened year-wise
- Top 20 companies that laid off at a percentage
- Top 3 locations where most layoffs happened
- Top 10 locations where most layoffs happened in USA
- Top 3 locations where most layoffs happened in India
- Relationship between funds raised and layoffs
- % of laid off stage of the company had the most layoffs
- Top 10 companies that laid off in India
- % of layoffs with respect to company size
- Top 20 companies that laid off at a percentage

Dataset Link: https://www.kaggle.com/datasets/swaptr/layoffs-2022

Kaggle notebook: https://www.kaggle.com/code/prasadpuvala/layoffs-2022-interactive-visualization-eda

3.2.1, let's start!!!

Importing libraries

```
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
import seaborn as sns
%matplotlib inline
from datetime import datetime, timedelta
from sklearn.preprocessing import LabelEncoder
from sklearn.model_selection import train_ import
sns.set_style('whitegrid')
sns.set_palette('husl')
plt.rcParams['figure.dpi'] = 100
plt.rcParams['figure.figsize'] = (12, 6)
```

Prepping into the data

```
df = pd.read_csv('layoffs.csv')
```

```
(2361, 9)
```

```
company_location  ...  funds_raised
company  ...  stage
Yahoo  Sunnyvale  ...  1.000000e+09
Mixed  ...  Post-IPO
Zillow  Seattle  ...  1.000000e+09
Mixed  ...  Post-IPO
Zillow  Seattle  ...  1.000000e+09
Mixed  ...  Post-IPO
Yahoo  Sunnyvale  ...  1.000000e+09
Mixed  ...  Post-IPO
Yahoo  Sunnyvale  ...  1.000000e+09
Mixed  ...  Post-IPO
[5 rows x 9 columns]
```

```
(2361, 9)
```

```
company_location  ...  funds_raised
company  ...  stage
Yahoo  Sunnyvale  ...  1.000000e+09
Mixed  ...  Post-IPO
Zillow  Seattle  ...  1.000000e+09
Mixed  ...  Post-IPO
Zillow  Seattle  ...  1.000000e+09
Mixed  ...  Post-IPO
Yahoo  Sunnyvale  ...  1.000000e+09
Mixed  ...  Post-IPO
Yahoo  Sunnyvale  ...  1.000000e+09
Mixed  ...  Post-IPO
[5 rows x 9 columns]
```

Let's see duplicate companies

```
df[df.company.value_counts() > 1].sort_values(ascending=False)
```

```
Mexico  ...  NaN
Mexico  ...  NaN
Mexico  ...  NaN
```

```
company                    158 0
Data Science               158 0
Data Analytics             158 0
Data Mining                158 0
Machine Learning           158 0
Big Data                   158 0
AI                         158 0
Analytics                  158 0
Business Analytics         158 0
Big Data Analytics         158 0
Data Analyst               158 0
Data Scientist             158 0
Data Engineer              158 0
Machine Learning Engineer  158 0
Data Warehousing           158 0
Business Intelligence      158 0
Analyst                    158 0
Business Analyst           158 0
Business Intelligence Analyst 158 0
Data Governance            158 0
Data Architect             158 0
Data Stewards              158 0
dtype: int64
```

Top 20 companies that land off-site of employees