In [1]:

```
print("Welcome to Data_Visualisation_1")
```

```
Welcome to Data_Visualisation_1
```

In [2]:

```
import numpy as np
import pandas as pd
```

In [3]:

```
!gdown 1upJyp4hzZVONmwiZvOfoKpA28uj2mJwo
```

```
Downloading...
From: https://drive.google.com/uc?id=1upJyp4hzZVONmwiZvOfoKpA28uj2mJwo
To: /Users/nikhilsanghi/Downloads/01_dsml-course-main-live/batches/1_Aug_Beg_Mon/14_Data_Visulisation_1_Pandas_6/final_vg.csv
100%|████████████████████████████████████████| 2.04M/2.04M [00:00<00:00, 3.91MB/s]
```

In [4]:

```
df=pd.read_csv("final_vg.csv")
df
```

Out[4]:

	Rank	Name	Platform	Year	Genre	Publisher	NA_Sales	EU_Sales	JP_Sales	Other_Sales	Global_Sales
0	2061	1942	NES	1985.0	Shooter	Capcom	4.569217	3.033887	3.439352	1.991671	12.802935
1	9137	¡Shin Chan Flipa en colores!	DS	2007.0	Platform	505 Games	2.076955	1.493442	3.033887	0.394830	7.034163
2	14279	.hack: Sekai no Mukou ni + Versus	PS3	2012.0	Action	Namco Bandai Games	1.145709	1.762339	1.493442	0.408693	4.982552
3	8359	.hack//G.U. Vol.1//Rebirth	PS2	2006.0	Role-Playing	Namco Bandai Games	2.031986	1.389856	3.228043	0.394830	7.226880
4	7109	.hack//G.U. Vol.2//Reminisce	PS2	2006.0	Role-Playing	Namco Bandai Games	2.792725	2.592054	1.440483	1.493442	8.363113
...	...	...	...	...	...	...	...	...	...	...	...
16647	7925	Zumba Fitness Rush	X360	2012.0	Sports	505 Games	4.409308	3.167419	4.168474	1.087977	13.053204
16648	6279	Zumba Fitness: World Party	Wii	2013.0	Misc	Majesco Entertainment	3.033887	2.792725	1.596852	1.493442	8.878837
16649	6977	Zumba Fitness: World Party	XOne	2013.0	Misc	Majesco Entertainment	3.228043	2.004268	1.833151	1.087977	7.954274
16650	15422	Zwei!!	PSP	2008.0	Role-Playing	Falcom Corporation	1.087977	0.592445	1.087977	0.394830	3.509168
16651	12919	Zyuden Sentai Kyoryuger: Game de Gaburincho!!	3DS	2013.0	Action	Namco Bandai Games	1.081046	1.714664	2.004268	0.394830	5.132196

16652 rows × 11 columns

In [5]:

```
import matplotlib.pyplot as plt
import seaborn as sns
```

In [9]:

```
df["Rank"].count()
```

Out[9]:

```
16652
```

In [10]:

```
df["Rank"].nunique()
```

Out[10]:

```
16598
```

In [11]:

```
df["Year"].nunique()
```

Out[11]:

```
41
```

In [ ]:

In [12]:

```
# univariate analysis
# bivariate analysis
# multivariate analysis
```

In [ ]:

```
# categorical ( C )
# continuous/Numerical ( N )
```

In [ ]:

```
#    univariate analysis
# 1. N
# 2. C
```

In [ ]:

```
#    bivariate analysis
# 1. NN
# 2. CN
# 3. CC
```

In [ ]:

```
#    multivariate analysis
# 1. NNN
# 2. NNC
# 3. NCC
# 4. CCC
```

In [ ]:

In [13]:

```
pd.merge?
```

In [ ]:

In [14]:

```
df_final
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
/var/folders/hd/9z4dczb56dj54lb7q8w7s4zw0000gn/T/ipykernel_25698/2300281832.py in <module>
----> 1 df_final

NameError: name 'df_final' is not defined
```

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