


```
In [6]: import pandas as pd

df = pd.read_csv("C:\\Users\\Atwongire Vianney\\Desktop\\AI_PRAC\\Walmart_sales\\Walmart_sales.csv")
df.head()
```

Out[6]:

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment
0	1	05-02-2010	1643690.90	0	42.31	2.572	211.096358	8.106
1	1	12-02-2010	1641957.44	1	38.51	2.548	211.242170	8.106
2	1	19-02-2010	1611968.17	0	39.93	2.514	211.289143	8.106
3	1	26-02-2010	1409727.59	0	46.63	2.561	211.319643	8.106
4	1	05-03-2010	1554806.68	0	46.50	2.625	211.350143	8.106



```
In [7]: df.tail()
df
```

Out[7]:

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemploym
0	1	05-02-2010	1643690.90	0	42.31	2.572	211.096358	8.1
1	1	12-02-2010	1641957.44	1	38.51	2.548	211.242170	8.1
2	1	19-02-2010	1611968.17	0	39.93	2.514	211.289143	8.1
3	1	26-02-2010	1409727.59	0	46.63	2.561	211.319643	8.1
4	1	05-03-2010	1554806.68	0	46.50	2.625	211.350143	8.1
...
6430	45	28-09-2012	713173.95	0	64.88	3.997	192.013558	8.6
6431	45	05-10-2012	733455.07	0	64.89	3.985	192.170412	8.6
6432	45	12-10-2012	734464.36	0	54.47	4.000	192.327265	8.6
6433	45	19-10-2012	718125.53	0	56.47	3.969	192.330854	8.6
6434	45	26-10-2012	760281.43	0	58.85	3.882	192.308899	8.6

6435 rows × 8 columns



```
In [9]: Weekly_Sales_df = df['Weekly_Sales']
```

```
In [27]: Weekly_Sales_df
```

```
Out[27]: 0      1643690.90
         1      1641957.44
         2      1611968.17
         3      1409727.59
         4      1554806.68
         ...
        6430      713173.95
        6431      733455.07
        6432      734464.36
        6433      718125.53
        6434      760281.43
        Name: Weekly_Sales, Length: 6435, dtype: float64
```

```
In [28]: Fuel_Price_df = df['Fuel_Price']
        Fuel_Price_df
```

```
Out[28]: 0      2.572
         1      2.548
         2      2.514
         3      2.561
         4      2.625
         ...
        6430      3.997
        6431      3.985
        6432      4.000
        6433      3.969
        6434      3.882
        Name: Fuel_Price, Length: 6435, dtype: float64
```

```
In [35]: Weekly_Sales_df.tolist()
        Weekly_Sales_list
```

NameError

Traceback (most recent call last)

Cell In[35], line 1

```
----> 1 Weekly_sales_df
      2 Weekly_Sales_df.tolist()
      3 Weekly_Sales_list
```

NameError: name 'Weekly_sales_df' is not defined

```
In [23]: Fuel_Price_df.tolist()
Fuel_Price_list
```

```
Out[23]: [2.572,
2.548,
2.514,
2.561,
2.625,
2.667,
2.72,
2.732,
2.719,
2.77,
2.808,
2.795,
2.78,
2.835,
2.854,
2.826,
2.759,
2.705,
2.668,
2.627]
```

```
In [30]: def line_of_best_fit(xs,ys):
        slope = (((mean(xs)*mean(ys)) - mean(xs*ys))/(mean(xs)*mean(xs) - mean(xs*
        y_intercept = mean(ys) - slope*mean(xs)
        return slope, y_intercept
```

```
In [31]: import numpy as np
```

```
In [36]: Weekly_sales_df
xs = np.array(Weekly_Sales_list, dtype = np.float64)
```

```
-----
NameError                                Traceback (most recent call last)
Cell In[36], line 1
----> 1 Weekly_sales_df
      2 xs = np.array(Weekly_Sales_list, dtype = np.float64)

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

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In [ ]:
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In [ ]:
```