In [3]:
```
import pandas as pd
db = pd.read_csv("Sales_Transactions_Dataset_Weekly.csv")
```

In [4]:
```
db.head()
```

Out[4]:

	Product_Code	W0	W1	W2	W3	W4	W5	W6	W7	W8	...	Normalized 42	Normalized 43	Norma
0	P1	11	12	10	8	13	12	14	21	6	...	0.06	0.22	
1	P2	7	6	3	2	7	1	6	3	3	...	0.20	0.40	
2	P3	7	11	8	9	10	8	7	13	12	...	0.27	1.00	
3	P4	12	8	13	5	9	6	9	13	13	...	0.41	0.47	
4	P5	8	5	13	11	6	7	9	14	9	...	0.27	0.53	

5 rows × 107 columns

In [5]:
```
db.tail()
```

Out[5]:

	Product_Code	W0	W1	W2	W3	W4	W5	W6	W7	W8	...	Normalized 42	Normalized 43	Norr
806	P815	0	0	1	0	0	2	1	0	0	...	0.00	0.33	
807	P816	0	1	0	0	1	2	2	6	0	...	0.43	0.43	
808	P817	1	0	0	0	1	1	2	1	1	...	0.50	0.00	
809	P818	0	0	0	1	0	0	0	0	1	...	0.00	0.00	
810	P819	0	1	0	0	0	0	0	0	0	...	0.00	0.00	

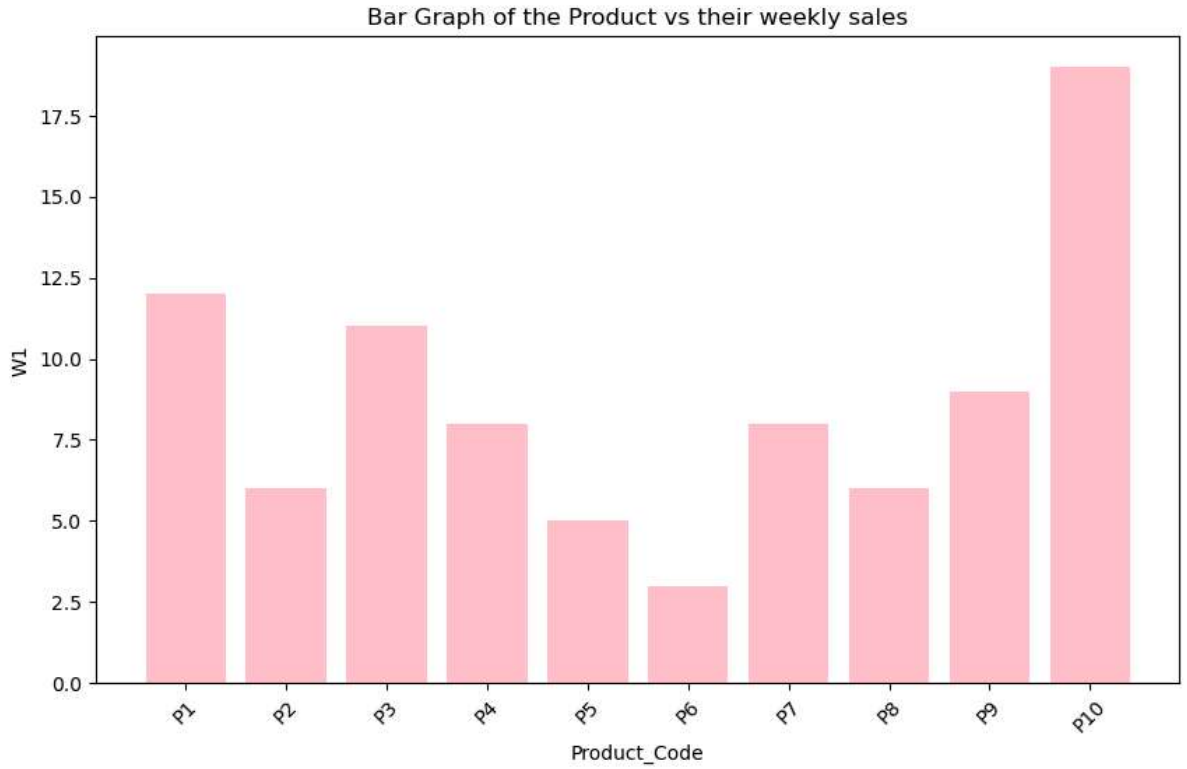
5 rows × 107 columns

In [6]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
df=pd.read_csv('Sales_Transactions_Dataset_Weekly.csv')
print(df.head())
print(df.isnull().sum())
print(df.describe)
```

```
  Product_Code  W0  W1  W2  W3  W4  W5  W6  W7  W8  ...  Normalized 42  \
0           P1  11  12  10   8  13  12  14  21   6  ...          0.06
1           P2   7   6   3   2   7   1   6   3   3  ...          0.20
2           P3   7  11   8   9  10   8   7  13  12  ...          0.27
3           P4  12   8  13   5   9   6   9  13  13  ...          0.41
4           P5   8   5  13  11   6   7   9  14   9  ...          0.27

   Normalized 43  Normalized 44  Normalized 45  Normalized 46  Normalized 47
\
0           0.22           0.28           0.39           0.50           0.00
1           0.40           0.50           0.10           0.10           0.40
2           1.00           0.18           0.18           0.36           0.45
3           0.47           0.06           0.12           0.24           0.35
4           0.53           0.27           0.60           0.20           0.20

   Normalized 48  Normalized 49  Normalized 50  Normalized 51
0           0.22           0.17           0.11           0.39
1           0.50           0.10           0.60           0.00
2           1.00           0.45           0.45           0.36
3           0.71           0.35           0.29           0.35
4           0.13           0.53           0.33           0.40

[5 rows x 107 columns]
Product_Code     0
W0               0
W1               0
W2               0
W3               0
                ..
Normalized 47    0
Normalized 48    0
Normalized 49    0
Normalized 50    0
Normalized 51    0
Length: 107, dtype: int64
<bound method NDFrame.describe of     Product_Code  W0  W1  W2  W3  W4  W5  W
6  W7  W8  ...  Normalized 42  \
0             P1  11  12  10   8  13  12  14  21   6  ...          0.06
1             P2   7   6   3   2   7   1   6   3   3  ...          0.20
2             P3   7  11   8   9  10   8   7  13  12  ...          0.27
3             P4  12   8  13   5   9   6   9  13  13  ...          0.41
4             P5   8   5  13  11   6   7   9  14   9  ...          0.27
..           ...  ..  ..  ..  ..  ..  ..  ..  ..  ..  ...           ...
806         P815   0   0   1   0   0   2   1   0   0  ...          0.00
807         P816   0   1   0   0   1   2   2   6   0  ...          0.43
808         P817   1   0   0   0   1   1   2   1   1  ...          0.50
809         P818   0   0   0   1   0   0   0   0   1  ...          0.00
810         P819   0   1   0   0   0   0   0   0   0  ...          0.00

     Normalized 43  Normalized 44  Normalized 45  Normalized 46  \
0             0.22           0.28           0.39           0.50
1             0.40           0.50           0.10           0.10
2             1.00           0.18           0.18           0.36
3             0.47           0.06           0.12           0.24
4             0.53           0.27           0.60           0.20
..             ...            ...            ...            ...
806           0.33           0.33           0.00           0.00
```

```
807           0.43           0.57           0.29           0.57
808           0.00           0.00           0.50           0.50
809           0.00           0.00           0.50           0.50
810           0.00           0.00           0.00           0.00

     Normalized 47  Normalized 48  Normalized 49  Normalized 50  Normalized 5
1
0             0.00           0.22           0.17           0.11           0.3
9
1             0.40           0.50           0.10           0.60           0.0
0
2             0.45           1.00           0.45           0.45           0.3
6
3             0.35           0.71           0.35           0.29           0.3
5
4             0.20           0.13           0.53           0.33           0.4
0
..             ...            ...            ...            ...
...
806           0.33           0.00           0.00           0.67           0.0
0
807           0.71           0.71           0.71           0.86           0.7
1
808           0.00           0.00           0.00           1.00           0.7
5
809           0.00           0.00           0.00           1.00           0.0
0
810           0.00           0.00           0.00           0.00           0.3
3

[811 rows x 107 columns]>
```

In [3]:
```
import pandas as pd
import matplotlib.pyplot as plt


df = pd.read_csv('Sales_Transactions_Dataset_Weekly.csv')

subset_df = df.head(10)
plt.figure(figsize=(10,6))
plt.bar(subset_df['Product_Code'], subset_df['W1'],color='pink')
plt.xlabel('Product_Code')
plt.ylabel('W1')
plt.title('Bar Graph of the Product vs their weekly sales')
plt.xticks(rotation=45)
plt.show()
```



In [ ]: