

question2

August 5, 2024

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[1]: import pandas as pd
import numpy as np
```

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[2]: data = {
    'Transaction_ID': [1, 2, 3],
    'Date': ['2023-08-01', '2023-08-02', '2023-08-03'],
    'Product': ['Product A', 'Product B', 'Product C'],
    'Quantity': [5, 10, 2],
    'Price_per_Unit': [100, 50, 200]
}
```

```
[3]: df = pd.DataFrame(data)
```

```
[4]: def calculate_total_revenue(df):
    df['Total_Price'] = df['Quantity'] * df['Price_per_Unit']
    total_revenue = df['Total_Price'].sum()
    return total_revenue
```

```
[5]: total_revenue = calculate_total_revenue(df)
print(f"The total revenue is: {total_revenue}")
```

The total revenue is: 1400

```
[6]: df.head()
```

```
[6]:
```

	Transaction_ID	Date	Product	Quantity	Price_per_Unit	\
0	1	2023-08-01	Product A	5	100	
1	2	2023-08-02	Product B	10	50	
2	3	2023-08-03	Product C	2	200	
	Total_Price					
0				500		
1				500		
2				400		

```
[ ]:
```