EXPERINMENT-04

4**. Scenario:** You are working on a project that involves analyzing the sales performance of a company over the past four quarters. The quarterly sales data is stored in a NumPy array named sales_data, where each element represents the sales amount for a specific quarter. Your task is to calculate the total sales for the year and determine the percentage increase in sales from the first quarter to the fourth quarter.

Question: Using NumPy arrays and arithmetic operations calculate the total sales for the year and determine the percentage increase in sales from the first quarter to the fourth quarter?

Code:

```
import numpy as np
sales_data = np.array([50000, 60000, 65000, 80000])
total_sales = np.sum(sales_data)
percent_increase = ((sales_data[3] - sales_data[0]) / sales_data[0]) * 100
print("Total Yearly Sales:", total_sales)
print("Percentage Increase:", percent_increase)
```

Output:

```
C:\Users\karan\OneDrive\Desktop\New folder (2)>4.py
Total yearly sales: 79000
Percentage increase from Q1 to Q4: 66.66666666666666 %
```