EXPERIMENT-4

AIM:

To calculate the total yearly sales and the percentage increase from the first quarter to the fourth quarter using NumPy.

ALGORITHM:

1. Create a 1D NumPy array with 4 elements representing quarterly sales.
2. Find the total sales using sum().
3. Extract first quarter sales and fourth quarter sales.
4. Calculate percentage increase using the formula.
5. Print the total sales and percentage increase.

CODE:

```
import numpy as np

sales_data = np.array([50000, 60000, 75000, 90000])

total_sales = sales_data.sum()

percentage_increase = ((sales_data[3] - sales_data[0]) / sales_data[0]) * 100

print("Total Sales for the Year:", total_sales)
print("Percentage Increase from Q1 to Q4:", percentage_increase)
```

INPUT

Quarterly sales:
Q1 = 50000
Q2 = 60000
Q3 = 75000
Q4 = 90000

OUTPUT

Total Sales for the Year: 275000
Percentage Increase from Q1 to Q4: 80.0