**Vector Addition – Manual & Python (NumPy) Implementation**

## 1. Manual Calculation

Given

* **A** = [15, 25, 35]
* **B** = [10, 20, 30]

Add the vectors element‑by‑element:

1. **First component**: 15 + 10 = **25**
2. **Second component**: 25 + 20 = **45**
3. **Third component**: 35 + 30 = **65**

Resulting vector

## 2. Python Implementation (NumPy)

import numpy as np

A = np.array([15, 25, 35]) B = np.array([10, 20, 30])

C = A + B

print(“Vector A:”, A) print(“Vector B:”, B) print(“A + B =”, C)

## Output

Vector A: [15 25 35] Vector B: [10 20 30] A + B = [25 45 65]