10/19/23, 10:05 PM python 8

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In [1]:
        import numpy as np
        # Create matrices A and B as 5x5 matrices with random non-zero integers
        # You can adjust the range of random values as needed
        np.random.seed(0) # Set a seed for reproducibility
        A = np.random.randint(1, 10, size=(5, 5))
        B = np.random.randint(1, 10, size=(5, 5))
        # Calculate the expression E (A+B)/(B-A) with a smaller epsilon value to avoid divi
         epsilon = 1e-16 # Adjust the value closer to zero as needed
        E = (A + B) // (B - A + epsilon) # Cast the result to integer
         # Print the results
        print("Matrix A:")
        print(A)
        print("\nMatrix B:")
        print(B)
        print("\nMatrix E ((A + B) / (B - A)):")
        print(E)
        Matrix A:
        [[6 1 4 4 8]
         [4 6 3 5 8]
         [7 9 9 2 7]
         [8 8 9 2 6]
         [9 5 4 1 4]]
        Matrix B:
        [[6 1 3 4 9]
         [2 4 4 4 8]
         [1 2 1 5 8]
         [4 3 8 3 1]
         [1 5 6 6 7]]
        Matrix E ((A + B) / (B - A)):
        [[ 1.2e+17  2.0e+16 -8.0e+00  8.0e+16  1.7e+01]
         [-3.0e+00 -5.0e+00 7.0e+00 -1.0e+01 1.6e+17]
         [-2.0e+00 -2.0e+00 -2.0e+00 2.0e+00 1.5e+01]
         [-3.0e+00 -3.0e+00 -1.8e+01 5.0e+00 -2.0e+00]
         [-2.0e+00 1.0e+17 5.0e+00 1.0e+00 3.0e+00]]
In [ ]:
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