main.c   Output

```c
#include <stdio.h>

int main() {
    int a[2][2], b[2][2], sum[2][2];
    int i, j;

    printf("Enter elements of first matrix
        :\n");
    for(i = 0; i < 2; i++) {
        for(j = 0; j < 2; j++) {
            scanf("%d", &a[i][j]);
        }
    }
    printf("Enter elements of second matrix
        :\n");
    for(i = 0; i < 2; i++) {
        for(j = 0; j < 2; j++) {
            scanf("%d", &b[i][j]);
        }
    }
    for(i = 0; i < 2; i++) {
        for(j = 0; j < 2; j++) {
            sum[i][j] = a[i][j] + b[i][j];
        }
    }
    printf("Sum of two matrices:\n");
    for(i = 0; i < 2; i++) {
        for(j = 0; j < 2; j++) {
            printf("%d ", sum[i][j]);
        }
        printf("\n");
    }
    return 0;
}
```

Run

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| main.c | Output |

Enter elements of first matrix:
1 2
3 4
Enter elements of second matrix:
5 7
7 8
Sum of two matrices:
6 9
10 12

=== Code Execution Successful ===