EXPERIMENT [1](matrix multiplication)

CODE:

#include <stdio.h>

int main() {

int a[3][3], b[3][3], c[3][3] = {0}, i, j, k;

printf("Enter 1st matrix (3x3):\n");

for (i = 0; i < 3; i++)

for (j = 0; j < 3; j++)

scanf("%d", &a[i][j]);

printf("Enter 2nd matrix (3x3):\n");

for (i = 0; i < 3; i++)

for (j = 0; j < 3; j++)

scanf("%d", &b[i][j]);

// Multiply

for (i = 0; i < 3; i++)

for (j = 0; j < 3; j++)

for (k = 0; k < 3; k++)

c[i][j] += a[i][k] \* b[k][j];

// Print result

printf("Result:\n");

for (i = 0; i < 3; i++) {

for (j = 0; j < 3; j++)

printf("%d ", c[i][j]);

printf("\n");

}

return 0;

}

OUTPUT:

